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VIBRATION AND LOADS IN HINGELESS ROTORS

VOLUME II - Experimental Data

by G. A. Watts and R. J. London

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SUMMARY

Volume II contains descriptions, geometry, and technical data covering three rotor systems. It also contains tables of experimental data gathered during wind tunnel testing of two of the systems.

Both analyzed experimental data, ready for comparison with theory, and the basic reduced data from which they were obtained are included.

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INTRODUCTION

To gain confidence that theories, developed through the application of logic, do correctly represent the physical processes at work in a mechanical system, there is an ultimate test - comparison of the results of the theories with measurements of the physical process itself.

Volume I of this report, discussed in detail the processes of logic employed in evolving sets of equations describing the motions of, and forces on, general multibladed hingeless rotor systems. It also presented the calculated results of the response of the equations representing such systems to selected forcing functions in as general a way as practical and compared them with carefully interpreted results of rotor experiments.

Volume II presents the logic involved in the gathering and analysis of the experimental data and presents the detailed physical properties of the rotor systems tested. A comprehensive detailed description of each rotor system was felt to be necessary so that information would be available to others who wished to test more comprehensive theories against measured data.

The main function of Volume II, however, is to act as a compendium of the experimental data measured on two of the three rotor systems of this study: the 33-foot, 3-blade rotor and the 7.5-foot, 4-blade rotor. The 35-foot 4-blade rotor data is referenced.

The data is first presented in its interpreted or analyzed form, ready for comparison with theory. In this form, however, certain aspects of the data, not included in the theoretical representation, may be missing. For this reason the data are also presented from which the interpretations were made. In this way the reader is free to make his own interpretation as he wishes.

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SYMBOLS

```
Number of blades
ъ
             Chord, ft.
             Rotating damping, ft. lb/rad/sec
C_R
c_{s}
             Stationary damping, ft. lb/rad/sec
             Root cut out fraction
C_{7}
F
             Collective control force, lb
             Gyroscope diametral moment of inertia, slugs ft.<sup>2</sup>
\mathtt{I}_{\mathtt{G}}
            Blade quarter chord moment of inertia, slugs ft.2
I
k
             Mechanical advantage
^{k}cr
            Rotating damping coefficient
k<sub>cs</sub>
             Stationary damping coefficient
ks
             Swashplate spring rate, ft. lb./rad
             Hub roll moment, ft. 1b.
\mathbf{L}
M
             Hub pitch moment, ft. 1b.
MA
             Swashplate pitch moment, ft. lb.
             Swashplate roll moment, ft. lb.
Мф
P
             Per revolution, or first flap frequency ratio
r
            Radial distance, ft.
R
            Rotor radius, ft.
V
            Forward speed, ft./sec
Χ
             Shaft shear force, aft, lb.
Y
             Shaft shear force, right, 1b.
            Vertical acceleration, ft./sec2
ż
α
            Angle of attack, deg. or rad.
            Blade section normal angle of attach, deg. or rad.
\alpha_n
            Rotor precore angle, deg. or rad
\beta_{o}
             Lock number
γ
            Feathering lock number, see VOL. I
Yf
δ
            Blade deflection, ft.
            Blade tip deflection, ft.
\delta_{	exttt{TIP}}
θ
             Swashplate pitch angle, rad.
```

$\theta_{ t t}$	Blade twist rate, rad/ft
θο .	Collective pitch, at zero radius, deg. or rad.
θ. _{75R}	Collective pitch, at 3/4 radius, deg. or rad.
$\theta_{ t lc}$	Lateral cyclic pitch, deg. or rad
θ_{1s}	Longitudinal cyclic pitch, deg or rad
ė.	Rotor pitch rate, rad./sec
μ	Advance ratio, approximately, $\frac{V}{\Omega R}$
ρ	Air density, slugs/ft. ³
σ	Solidity
ф	Swashplate roll displacement, rad.
Φ	Rotor roll rate, rad/sec
Ψ	Azimuth position of number 1 blade, rad
σ	Rotor rotation rate, rad/sec
$oldsymbol{\Omega}_{ ext{G}}$	Gyroscope rotation rate, rad/sec
•	in the control of the
-	

ROTOR SYSTEM PHYSICAL DATA

In this section a physical description of each of the three rotor systems is presented. The geometry, distribution of mass and stiffness, aerodynamics and experimental vibration modes of the blade, rotor, swashplate, gyroscope, and attached airframe, where applicable, are described in detail.

33-Foot, 3-Blade Rotor

The 33-foot 3-blade rotor model consisted of the rotor, a high-speed gyroscope stabilized free swashplate capable of being fixed (made irreversible) for certain tests and an inertia framework supporting the rotor system. The framework was mounted on the floating tunnel balance table through three streamlined pylons. The tunnel balance-pylon-inertia frame system provided an essentially fixed condition to the rotor shaft. The stiffness of the system, however, coupled with the mass of the inertia frame did provide longitudinal and lateral vibrations modes which were excited during testing. A streamlined helicopter fuselage model faired the inertia frame as shown in Figure 1.

Rotor geometry. - The rotor geometry is defined in Figures 1 through 3 of Volume I. The dimensions and geometric parameters of the rotor are as follows:

Number of blades	b = 3
Radius	R = 16.5 ft.
Chord	c = 1.167 ft.
Root cutout fraction	$C_1 = .15$
Airfoil	NACA 63 ₂ 015
Solidity	$\sigma = 0.0675$
Disk area	$\pi R^2 = 855.3 \text{ ft.}^2$
Blade precone	$\beta_0 = 2.25 \text{ degrees}$
Blade forward sweep	Λ = 1.50 degrees

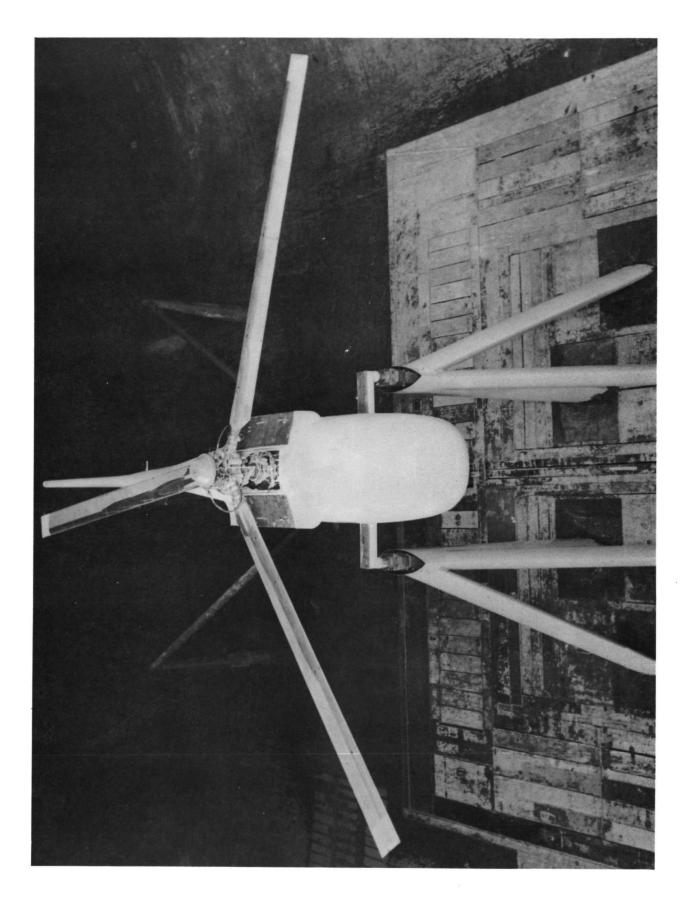


Figure 1. Gyroscope Stabilized 33-Foot 3-Blade Rotor Installed in the Ames 40x80 Foot Wind Tunnel

Blade twist (nose down at tip)

Blade twist axis (passes through

shaft centerline)

Blade feathering axis

Cant angle

Mechanical advantage

 $\theta_{+}R = -9.43$ degrees

27% chord

32.5% chord at rotor station 30.85 inches

 ψ_{α} = 60 degrees

k = 1.15

NOTE: Blade twist is such that when $\theta_{.75R} = 0$, $\theta_{0} = 7.1$ degrees

Blade section properties for the NACA 63_2 015 airfoil over the angle-of-attack range $-15^{\circ}<\alpha_n<15^{\circ}$ are shown in Reference 1.

Blade mass and stiffness distributions. - The 33-foot rotor blade mass and structural properties are given in Figures 2 through 6. The moment of inertia of a single blade about its quarter - chord axis is $I_0 = .216$ slug ft².

Gyroscope and swashplate data. - The gyroscope polar moment of inertia was:

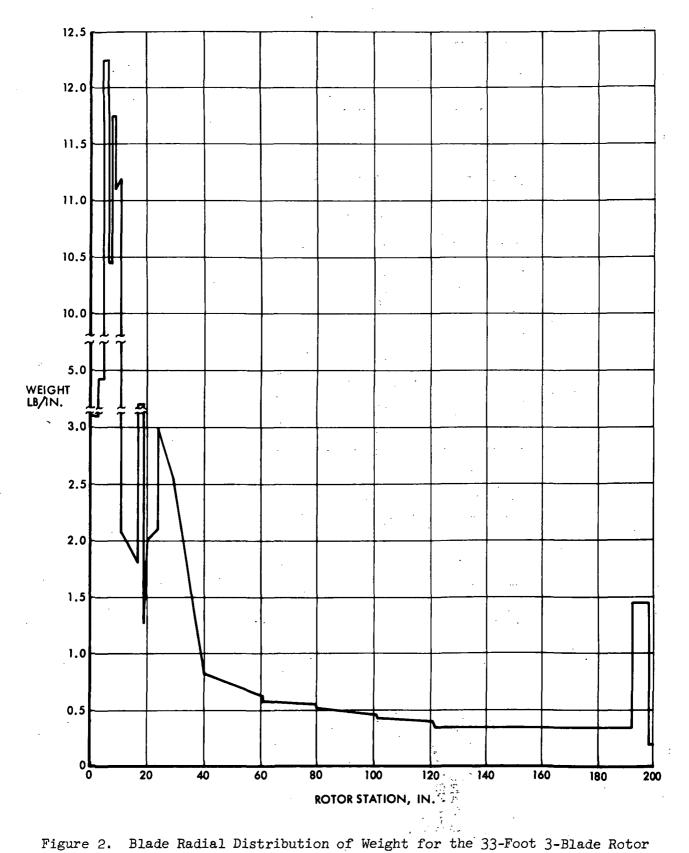
$$2I_{c} = .30 \text{ slugs ft}^2$$

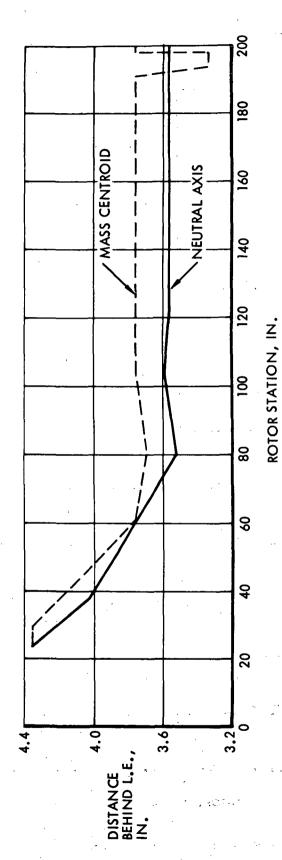
Its normal or 100% operating rotation rate was 10,000 rpm.

Swashplate mechanical advantage k = 1.15 and swashplate cant angle $\psi_{o} = 60^{\circ}$

In the swashplate fixed or locked condition the swashplate restraint to ground possessed the following stiffnesses:

where M_{θ} and M_{ϕ} are the swashplate moments in ft-lb, F is the swashplate collective force in lb and θ , ϕ and θ are the swashplate tilt and blade collective pitch displacements, respectively, measured in radians. All measurements are relative to stationary axes.





Blade Radial Distribution of Mass Centroid and Neutral Axis for the 33-Foot 3-Blade Rotor Figure 3.

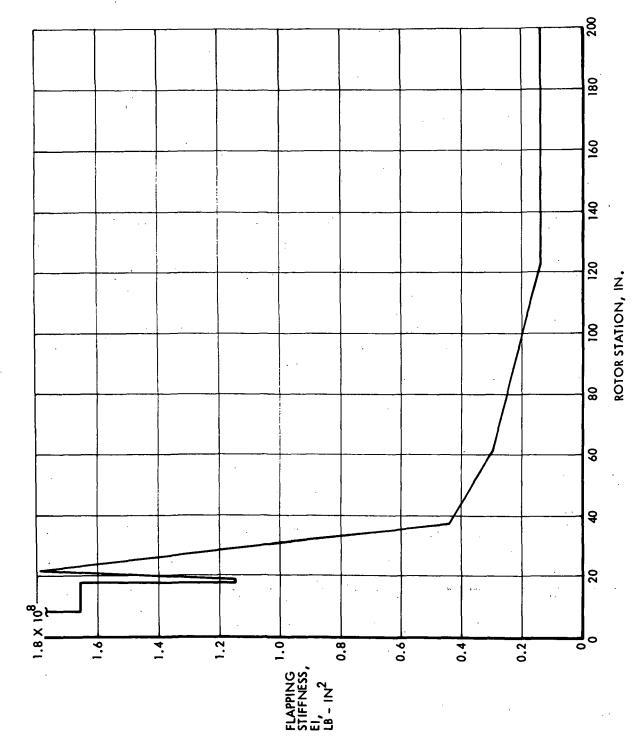


Figure 4. Blade Radial Distribution of Flapping Stiffness for the 33-Foot 3-Blade Rotor

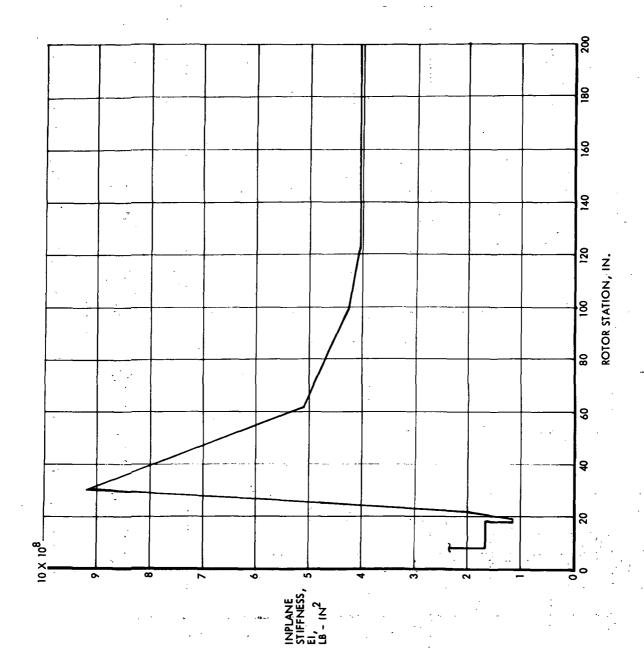
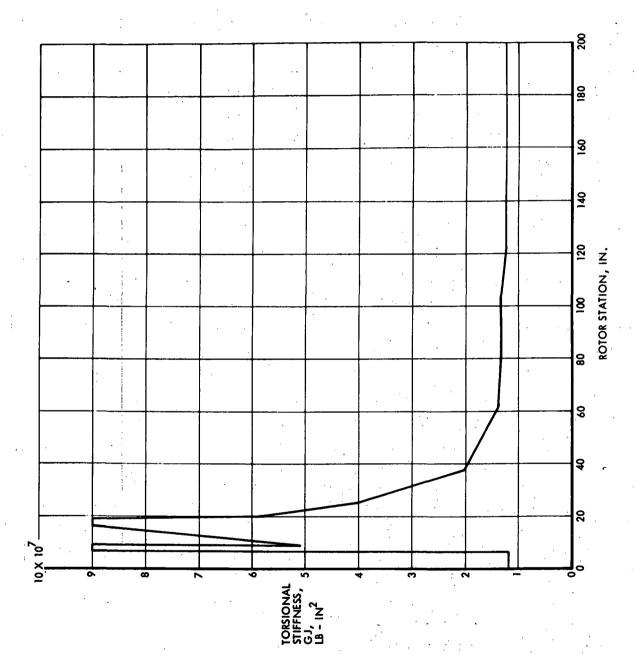


Figure 5. Blade Radial Distribution of In-Plane Stiffness for the 33-Foot 3-Blade Rotor



Blade Radial Distribution of Torsional Stiffness for the 33-Foot 3-Blade Rotor Figure 6.

Swashplate stiffness was determined by application of feathering moments to the blades and measurement of the blade feathering deflections that resulted, in a static ground test.

In the free swashplate condition, or with all coefficients of the swashplate stiffness matrix zero but the lower right or collective stiffness element, the idling locking cylinders exerted damping forces on the swashplate. The damping coefficients were symmetric and were estimated from bench test and rotating tests to be approximately $C_s = 80 \text{ ft/lb/radian/sec.}$ Feathering friction also applied moments to the swashplate. It was quite small and could not be determined precisely. It is estimated to have been of the order of $C_R = 7 \text{ ft-lb/radian/sec.}$

Experimental vibration modes. - The rotor experimental vibration tests were aimed at determining, first the single blade vibration mode shapes and frequencies in the essentially vertical direction, and secondly the overall rotor in-plane modes. Because the shaft stiffness was very great compared to that of the blades in vertical flapping it was expected that the shapes and frequencies of the flapping modes would not change significantly when organized into total rotor modes. In the in-plane direction, however, the blades are almost an order of magnitude stiffer than in the flapping direction and it was suspected that the shaft, and perhaps the inertia frame on its support, might interact with the individual blade modes to create significantly different overall rotor modes.

Experimentally measured single blade flapping modes are shown in Figure 7 at zero rpm. In-plane rotor modes were determined experimentally by clamping the rotor against rotation at its stopping brake, and exciting the blades as indicated in Figures 8 through 10. Significant motions of the shaft appears to have taken place in the mode at f = 8.78 cps. The modes at f = 6.1 cps, or longitudinal mode, and f = 6.03 cps, or lateral mode, appear to have been little affected by shaft motion.

The theoretical variation of "single blade" vibration mode frequency with rpm is shown in Figure 11. The two flap modes present no difficulty, but since the in-plane modes apparently involve shaft mations there is no clear-cut

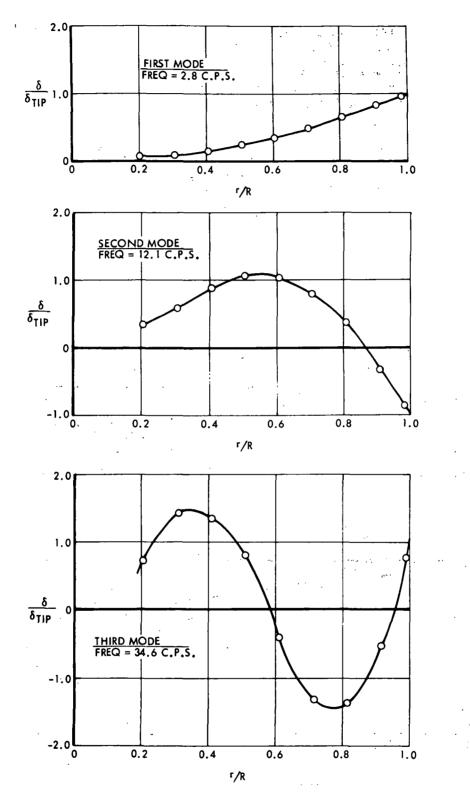


Figure 7. Single Blade Experimental Flapping Modes at Zero rpm for the 33-Foot 3-Blade Rotor, $\theta_{.75R} = 0$

FREQ = 6.03 C.P.S.
SHAKERS ON BLADES 2 AND 3
ARE IN PHASE
SHAKER ON BLADE 1 IS 180° OUT
OF PHASE WITH 2 AND 3, AND
HAS TWICE THE AMPLITUDE

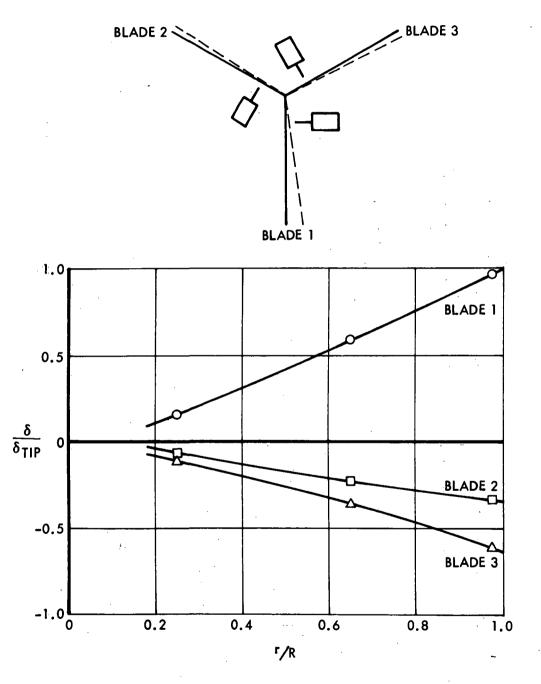


Figure 8. Rotor Experimental In-plane Lateral Natural Mode of Vibration at Zero rpm for the 33-Foot 3-Blade Rotor, $\theta_{.75R}$ = 0

FREQ = 6.1 C.P.S. NO SHAKER ON BLADE 2 SHAKERS ON BLADES 1 AND 3 (180° OUT OF PHASE)

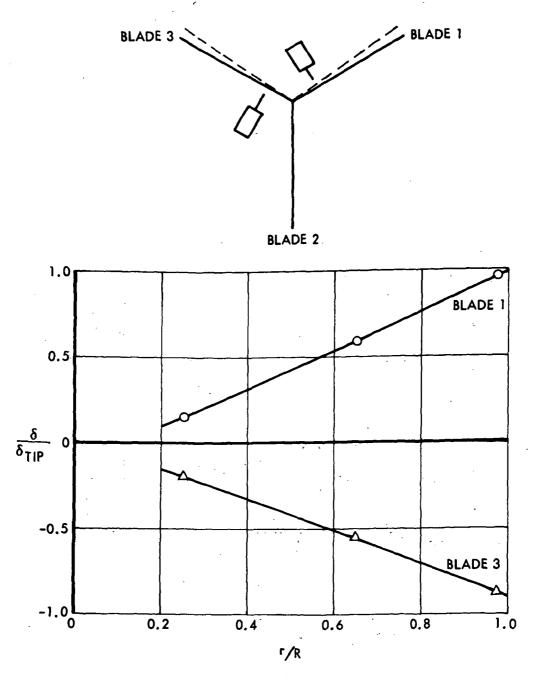
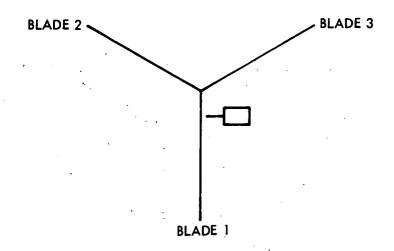


Figure 9. Rotor Experimental In-plane Longitudinal Natural Mode of Vibration at Zero rpm for the 33-Foot 3-Blade Rotor, θ .75R = 0



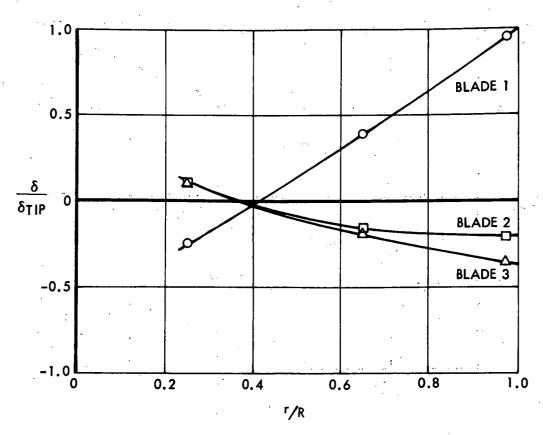


Figure 10. Rotor Experimental In-plane Natural Mode with Shaft Motion at Zero rpm for the 33-Foot 3-Blade Rotor, θ = 0

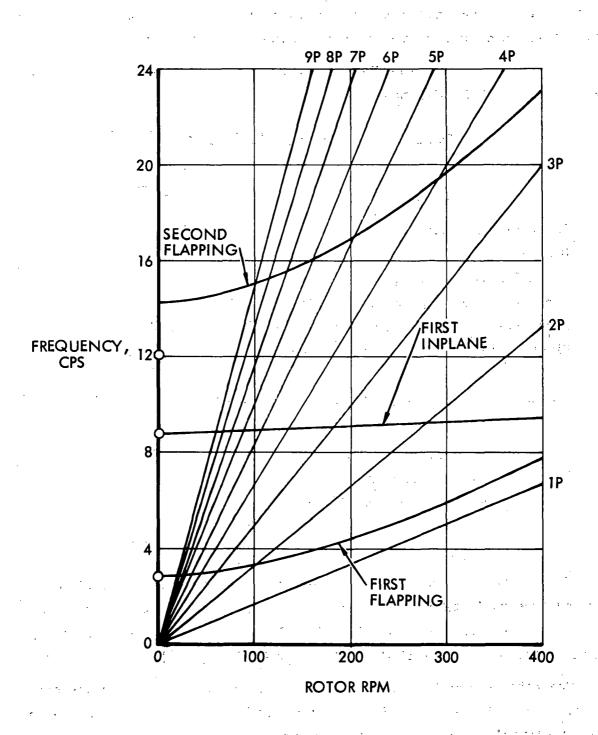


Figure 11. Single Blade Vibration Mode Frequency Variation with rpm for the 33-Foot 3-Blade Rotor

single blade in-plane mode. The in-plane mode shown has been adjusted so that it passes through the two-per-revolution line at the rpm at which maximum in-plane excitation was noticed in the wind tunnel test.

The frequencies of the flap and in-plane modes, at zero rpm, are summarized in the following table.

EXPERIMENTAL BLADE NATURAL FREQUENCIES AT ZERO RPM

Mode	Natural Frequency (CPS)
First flapwise bending	2.8
Second flapwise bending	12.1
Third flapwise bending	34.6
First in-plane longitudinal bending mode	6.1
First in-plane 'lateral bending' mode	6.03
First 'coupled' in-plane/bending mode	8.78

During the wind tunnel test 3P resonances were noted at certain rotor rpm. They were as follows:

Body lateral at 165 rpm

Body longitudinal at 220 rpm

Rotor in-plane at 280 rpm

7.5-Foot 4-Blade Rotor

The 7.5 foot 4-blade rotor was designed to test theories developed for high advance ratio flight. As such it was kept simple so as to keep basic concepts clearly in view. Cyclic and collective pitch were controlled by a fixed swashplate and the blades had no forward sweep, twist, or precone.

The rotor was mounted on a simulated fuselage, as a fairing was needed to cover the power source and swashplate servos. The model was mounted on the wind tunnel balance by a single pylon.

Two blade stiffness configurations are studied in this report. The stiffness is varied by changing the flexures which attach the blades to the

rotor shaft. Stiff and soft flexures are employed. The blade mass distribution remains unchanged and provides a lock number γ = 5.0 at sea level air density.

Rotor geometry. - The general form of hingeless rotor arrangement considered in this study is shown in Volume I. The particular details of the 7.5-foot four-blade rotor are listed below:

Number of blades	b = 4
Radius	R = 3.75 ft.
Chord	c = .375 ft. (4.5 inches)
Airfoil	NACA 0012
Solidity	$\sigma = .127$
Disk area	$\pi R^2 = 44.2 \text{ ft}^2$
Blade precone	$\beta_{O} = 0$ degrees
Blade forward sweep	$\Lambda = 0$ degrees
Blade twist	$\theta_{t}^{R} = 0 \text{ degrees}$
Blade feathering axis	along quarter-chord line

Aerodynamic properties of the NACA 0012 blade airfoil section over the angle-of-attack range -15< α <15 degrees may be found in Reference 1.

Blade mass and stiffness distributions. - The 7.5-foot rotor blade mass and structural stiffness distributions are shown in Figures 12 through 18. It should be noted that the feathering hinge is located just outboard of the interchangeable flexures on the quarter-chord axis.

Theoretical vibration modes. - Calculated first flap mode shapes for the 7.5-foot 4-blade rotor and shown in Figure 19. Shapes for configuration 1 (soft flexure) at 200 and 800 rpm and configuration 3 (stiff flexure) at 800 rpm are shown compared to the parabolic approximation used in the theory.

The theoretical variation of the first and second flapping, first inplane and first torsion modes with rpm is shown in Figure 20. In this figure are shown experimentally determined rpm values at which blade resonances were observed.

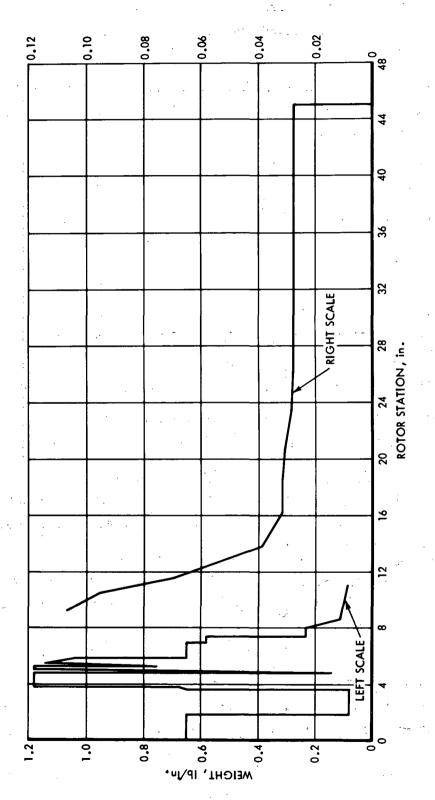
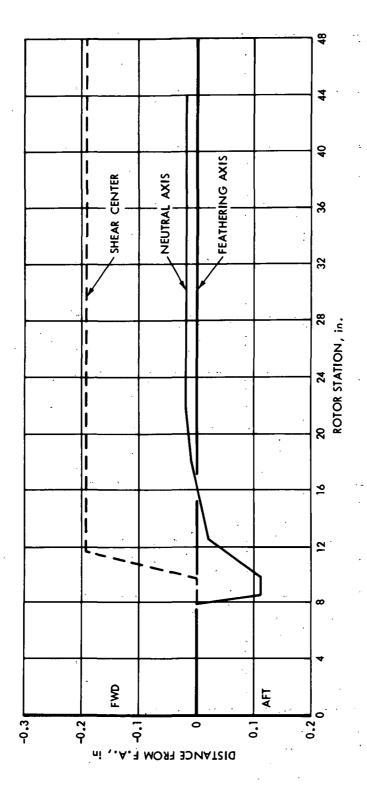


Figure 12. Blade Radial Distribution of Weight for the 7.5-Foot 4-Blade Rotor



Blade Radial Distribution of Shear Center and Neutral Axis Relative to the Feathering Axis for the 7.5-Foot 4-Blade Rotor Figure 13.

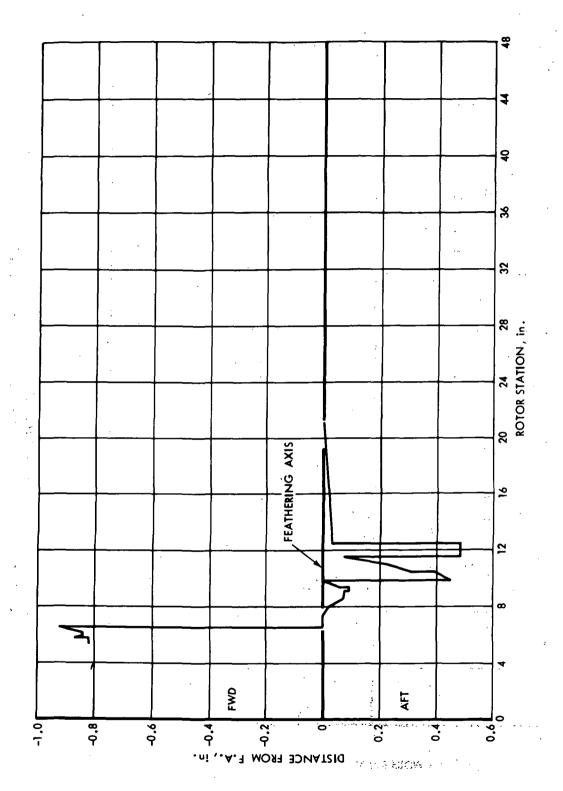
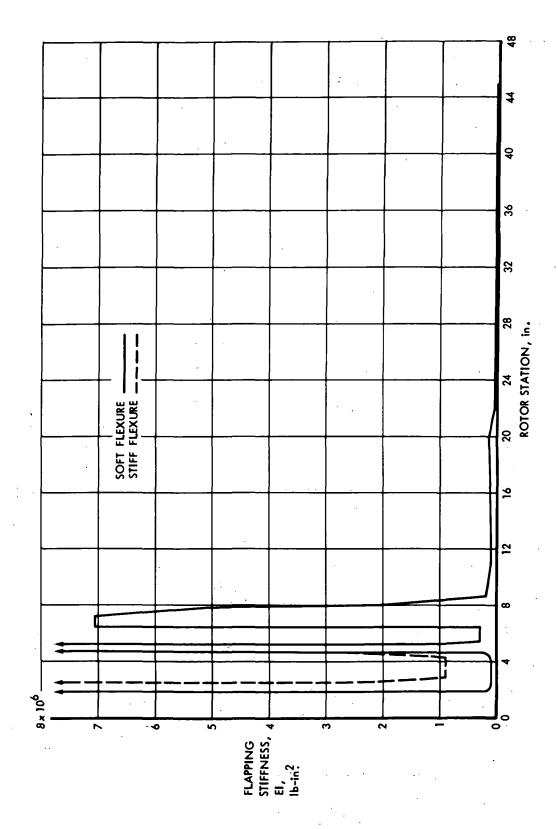


Figure 14. Blade Radial Distribution of Mass Centroid of the 7.5-Foot 4-Blade Rotor



Blade Radial Distribution of Flapping Stiffness for the 7.5-Foot 4-Blade Rotor Figure 15.

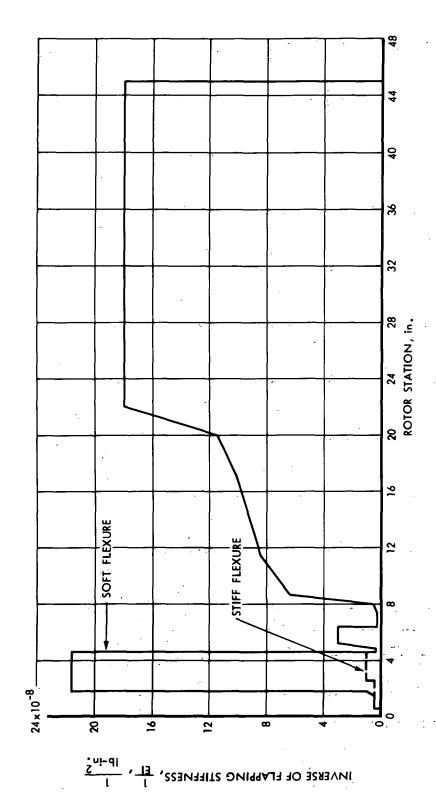
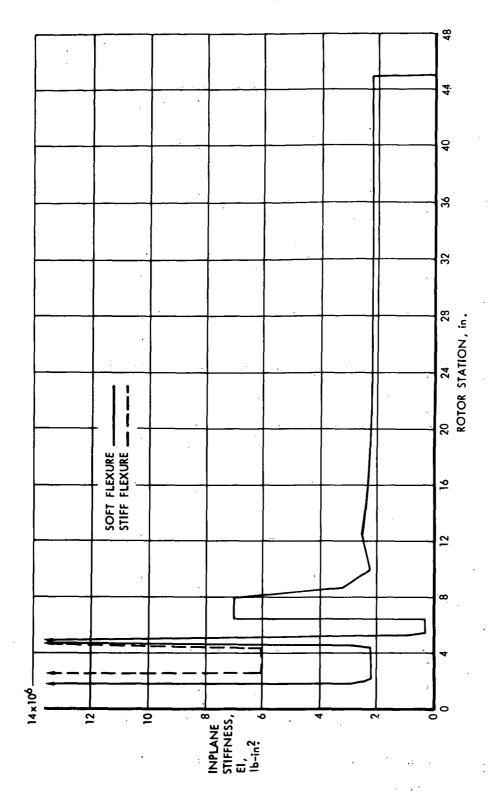


Figure 16. Blade Radial Distribution of the Reciprocal of Flapping Stiffness for the 7.5-Foot 4-Blade Rotor



Blade Radial Distribution of In-Plane Stiffness for the 7.5-Foot, 4-Blade Rotor Figure 17.

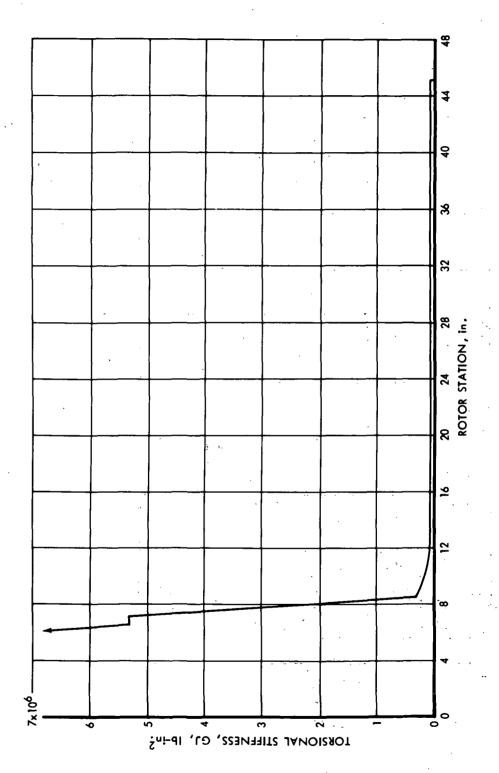


Figure 18. Blade Radial Distribution of Torsional Stiffness for the 7.5-Foot 4-Blade Rotor

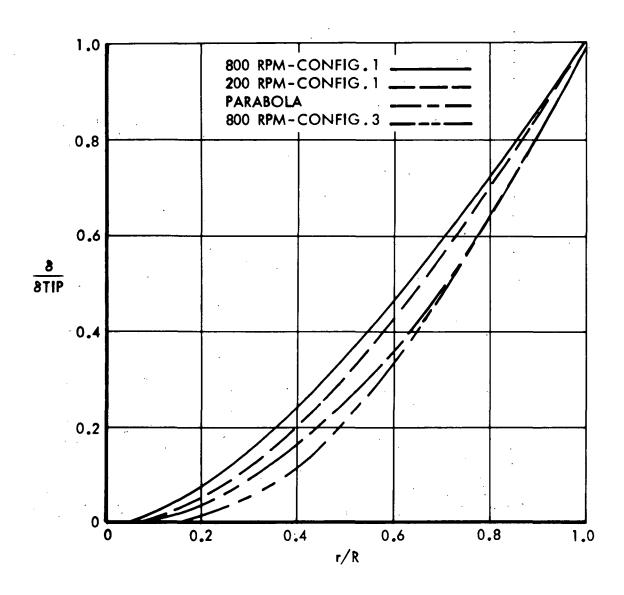


Figure 19. First Flap Mode Shape Variation With Flexure Stiffness and RPM for the 7.5-Foot 4-Blade Rotor

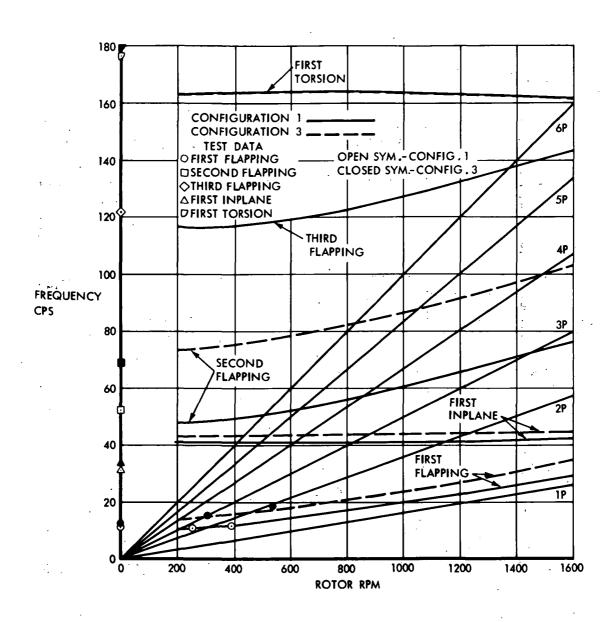


Figure 20. Single Blade Natural Frequency Variation With RPM for the 7.5-Foot 4-Blade Rotor

The following table contains the theoretical natural frequency of vibration of each of the modes of configurations 1 and 3 and a comparison with the equivalent experimentally measured values.

NATURAL FREQUENCIES OF VIBRATION OF THE 7.5-FOOT, 4-BIADE ROTOR

	Configuration 3, Stiff Flexure		
	Theory Test (cps)		(cps)
Mode	(cps)	Blade No. 3	Blade No. 4
lst Flap	13.9	13.82	13.79
2nd Flap	72.5	66.1	67.2
3rd Flap		163	163.3
lst In-Plane	43	33.8	33•2
lst Torsion	164	179	180
Configuration 1, Soft Flexure			
lst Flap	10.65	11.4	11.81
2nd Flap	47	52.0	52.1
3rd Flap	116	121.6	122.7
lst In-Plane	40.9	31.4	32 . 7
lst Torsion	.165	177	176

35-Foot 4-Blade Rotor

The blades of the 35-foot 4-blade rotor of the XH-51A compound helicopter are significantly more flexible than the blades of either the 33-foot or 7.5-foot-diameter rotors and this fact causes the parabolic representation of the first flap mode, employed in the theory, to be rather poor. The fact that the rotor-gyroscope-airframe system is in free flight and the shaft may be considered to be free to pitch, roll, and plunge, however, is adequately accounted for in the theory. The gyroscope differs from that of the 33-foot rotor in that it rotates at rotor rpm. A larger moment of inertia offsets the lower rotation rate and results in similar gyroscope precessive

behavior but the nutating mode frequency is much reduced, compared to the high speed gyroscope, to of the order of 2P (2 oscillations per rotor revolution) in stationary axes. The interaction of the gyroscope with the rotor free shaft system is adequately accounted for in the theory.

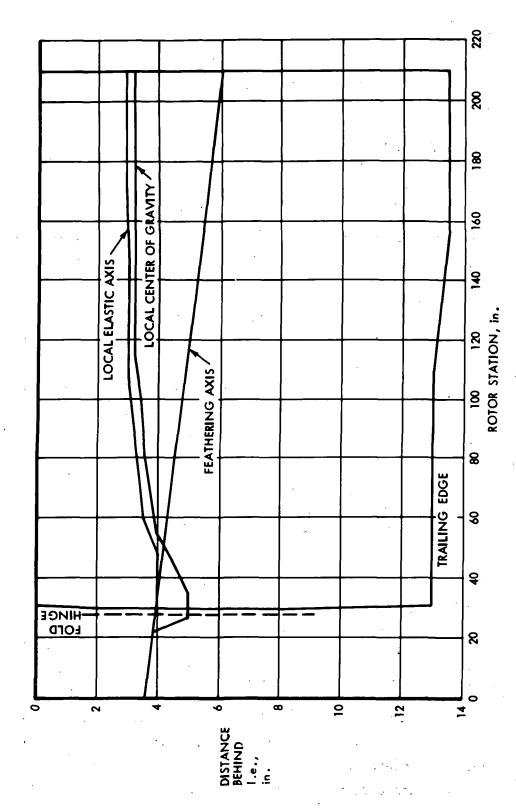
This section of the report describes the XH-51A compound helicopter rotor geometry, blade mass and stiffness distributions, airfoil section, swashplate cant angle, mechanical advantage and damping estimates, gyroscope inertia, airframe inertia and aerodynamic properties, and rotor vibration modes.

Rotor geometry. - The 35-foot 4-blade rotor geometry fits into the general pattern established for these analyses and defined in Volume I. A foreshortened drawing of the blade plan form, Figure 21, is included for reference, which shows the feathering axis and local distributions of elastic axis and center of gravity. In addition it should be noted that the blade 27% chord line intersects the axis of rotation rather than the line of aerodynamic centers which lies along the 25% chord line. This provides a very slightly larger effective blade forward sweep angle. This small increase has been ignored in the analysis.

Dimensions and geometric parameters of the XH-51A compound helicopter rotor are listed below.

Number of blades	
Radius	
Chord	
Disk area	
Solidity	
Airfoil section	
Twist	
Hub precone .	•
Preset blade droop at sta 27.85	• •
Blade sweep	· i
Rotor polar moment of inertia	
Normal operating rpm	•

```
b = 4
R = 17.5 ft
c = 1.125 ft (13.5 inches)
πR<sup>2</sup> = 962 ft<sup>2</sup>
σ = .0818
modified NACA 0012
θ<sub>t</sub>R = -5.0 degrees
β<sub>0</sub> = 3.2 degrees
=-1.0 degree
Λ = 1.4 degrees forward
= 1013 slug ft<sup>2</sup>
355 rpm
```



Blade Radial Distribution of Elastic Axis, Center of Gravity, and Feathering Axis Relative to the Leading Edge for the XH-51A Compound Helicopter Rotor Figure 21.

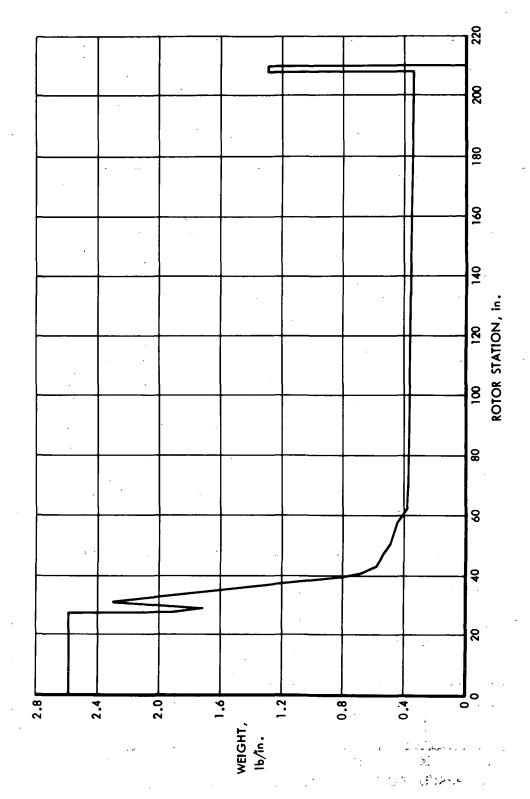
The modifications to the NACA 0012 airfoil consisted of a flattening of the trailing edge region and a small trailing edge tab addition. The modifications are not expected to significantly alter the aerodynamic properties of the section.

Blade mass and stiffness distributions. - The distribution of blade mass and stiffness along the rotor radius is presented in Figures 22 through 25. The moment of inertia of the blade about its quarter-chord locus is not known but an estimate of its magnitude might be made based on the blade weight of 86 lb outboard of the fold line shown in Figure 21 and an estimate of the distribution of this mass in the chordwise direction.

Gyroscope and swashplate data. - The gyroscope rotates at rotor speed and is geared, through a mechanical advantage, to the feathering axis of the blades. Tilt of the swashplate and gyroscope causes the blades to feather cyclically but not parallel to the swashplate, or with a cant angle $\psi_0 = 90^{\circ}$, but at a smaller cant angle. In addition the swashplate is lightly restrained by symmetric springs to the fuselage and lightly damped by swashplate dampers. The following parameters describe the gyroscope to blades and swashplate condition.

Gyroscope polar moment of inertia $2I_G = 7.5 \text{ slugs ft}^2$ Gyroscope rpm $\Omega_G = \text{rotor rpm}$ Cant angle $\psi_O = 45 \text{ degrees}$ Mechanical advantage $\psi_O = 1.4$ Swashplate stationary axis damping $\psi_S = 21 \text{ ft.lb/rad/sec}$ Swashplate springs to ground $\psi_S = 77.5 \text{ ft.lb/rad}$

Airframe geometry, aerodynamics and inertia. - The geometry of the airframe is shown in Figure 26. It should be noted that the rotor is tilted 6 degrees ahead of a normal-to-the-fuselage reference line. The projection of the point, at which the shaft axis intersects the rotor disk, along the normal to the fuselage reference line is defined as fuselage station 100. The reference position for center of gravity location, however, is the shaft axis. C.g. position is the distance perpendicular to the shaft axis.



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Figure 22. Blade Radial Distribution of Weight for the XH-51A Compound Helicopter Rotor

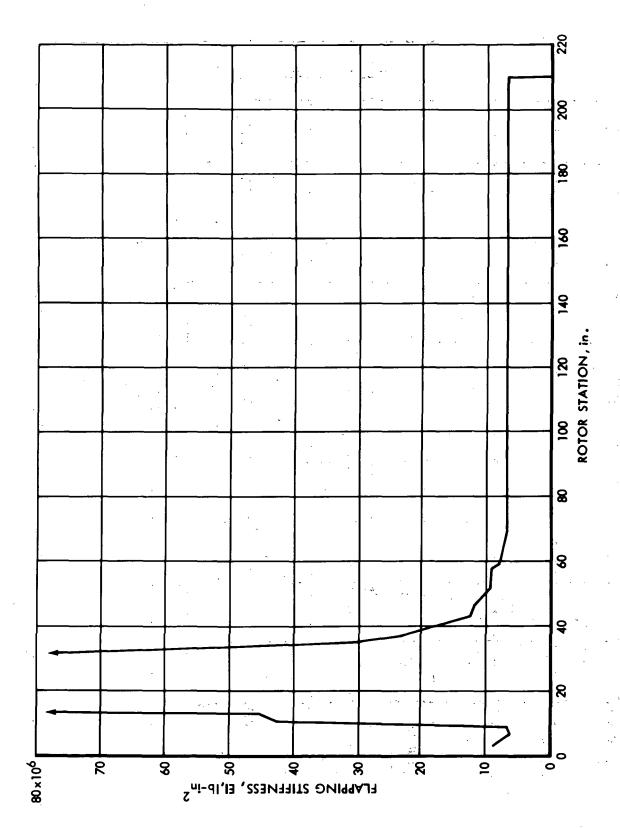


Figure 23. Blade Radial Distribution of Flapping Stiffness for the XH-51A Compound Helicopter

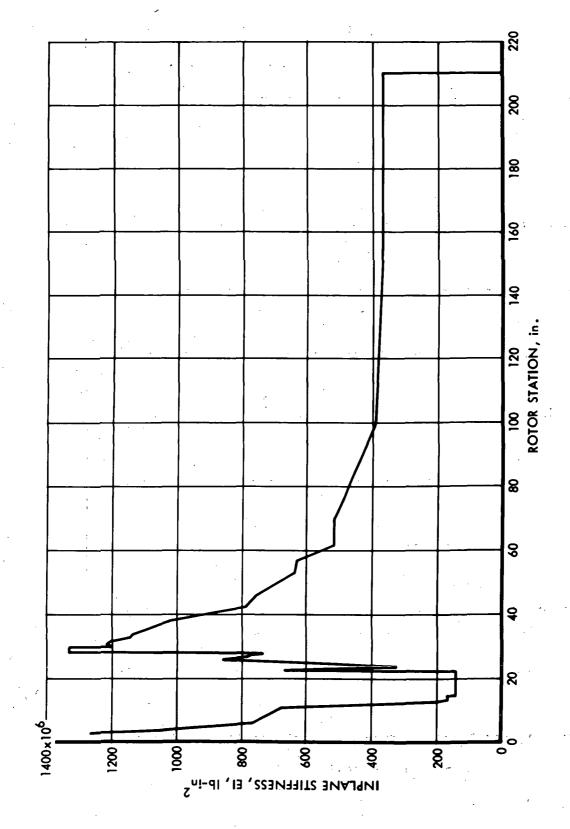
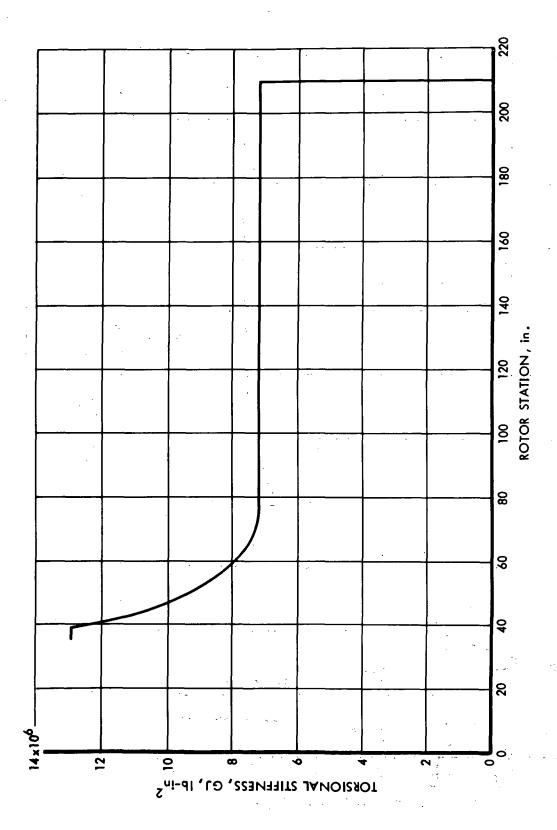


Figure 24. Blade Radial Distribution of In-Plane Stiffness for the XH-51A Compound Helicopter



Blade Radial Distribution of Torsional Stiffness for the XH-51A Compound Helicopter Figure 25.

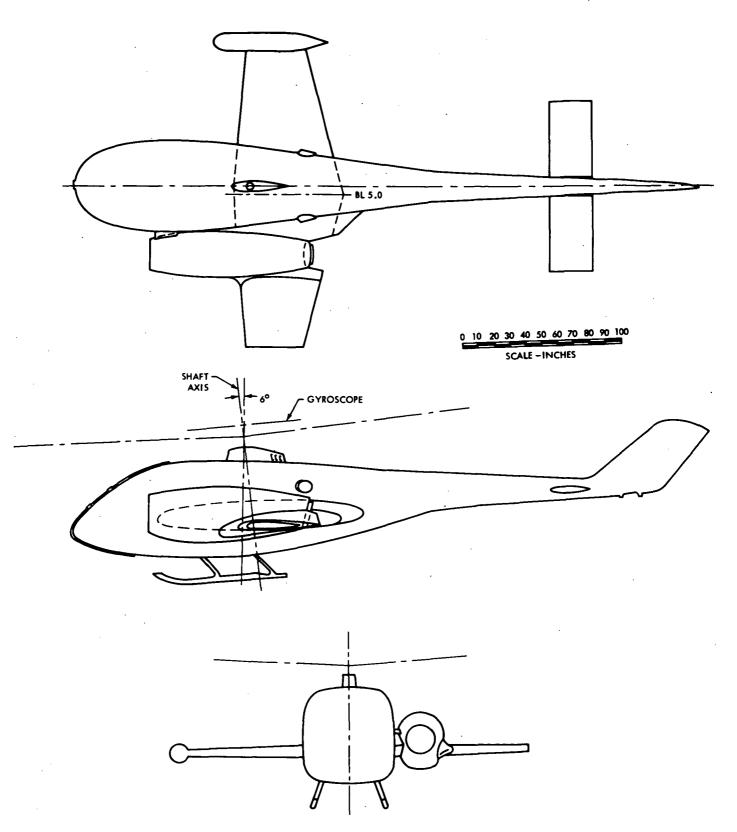


Figure 26. XH-51A Compound Helicopter Airframe General Arrangement

The configuration consists of a fuselage with a drooped nose, a single engine nacelle, and a wing and horizontal tail plane. An indications of the wing asymmetry can be gained by noting that the wing zero buttock line is 5.0 inches to the left of the fuselage centerline.

The geometry of the wing is summarized as follows:

Span	16.83 ft
Taper ratio	•5
Area	70 ft ²
Aspect ratio	4.05
Sweepback (.25c)	0
Chord (M.A.C.)	51.72 inches
Airfoil	NACA 23011
Incidence	9 degree

The geometry at the tail plane is as follows:

Span	108 inches
Chord	26.4 inches
Area	19.8 ft ²
Aspect ratio	4.1
Airfoil section	NACA 0015
Incidence	-0.25 degree
Tip weight	8 lb/side

Aerodynamic derivatives of the wing-body-nacelle-tail configuration have been estimated theoretically and in some cases checked by experiment. The derivatives are relative to conventional aircraft axes, i.e., positive directions are as follows X forward, Y laterally to the right, and Z down. Roll and pitch moments are consistent with this right-handed system, for example, positive pitch moments are nose up about the Y-axis which is located by having to pass through the shaft axis of rotation.

$$Z_{\alpha}$$
 = -280 q_{a} lb/radian M_{α} = -91 q_{a} ft-lb/radian

$$M_{\dot{\alpha}} = -9250 \frac{q_a}{V}$$
 ft-lb/radians/sec
 $M_q = -14,890 \frac{q_a}{V}$ ft-lb/radians/sec
 $L_p = -3890 \frac{q_a}{V}$ ft-lb/radians/sec

where

V = aircraft forward speed ft/sec

 q_{p} = aircraft forward speed dynamic pressure

 α = rotor angle of attack radians

q = pitch rate

rad/sec

p = roll rate

rad/sec

The trimming, forcing aerodynamic, jet engine force term, rotor downwash forcing term and c.g. gravitational force term occupying the right-hand side of the differential equations are estimated to be as shown on page 39.

The vertical force, roll, and pitch moment error terms Z_{error} , L_{error} , and M_{error} are employed to compensate for any errors that would result in lack of balance within a certain flight condition.

The form of the airframe inertia coefficients is shown in Volume I. The gross weight and moments of inertia about nominal axes are as follows:

Design gross weight	4500 lb
-Takeoff gross weight, neutral c.g.	- 5165- lb_
Takeoff gross weight, forward c.g.	5275 lb

Roll mass moment of inertia (including rotor)	1500 slug ft^2
Pitch mass moment of inertia (including rotor)	3150 slug ft ²
Yaw mass moment of inertia (including rotor)	3800 slug ft^2

The center of gravity shift under different loading conditions is shown in the following:

Summary of Terms on the Right-Hand Side of the Airframe Equations

Pitch
$$M = \Delta x_{c,g}nW + M_{\alpha} \cdot \alpha_{gust} + M_{\alpha} = 0 + \frac{dM}{dF_{N}} \cdot F_{N} + \Delta M_{0}(q_{a}) + M_{error}$$

Roll $L = \Delta x_{c,g}nW - L_{\alpha} \cdot \alpha_{gust} - L_{\alpha} = 0 - \frac{dL}{dF_{N}} \cdot F_{N} - \Delta L_{0}(q_{a}) - L_{error}$

Plunge $L = \Delta x_{c,g}nW + (-91q_{a})\alpha_{gust} - L_{\alpha} = 0 - \frac{dL}{dF_{N}} \cdot F_{N} - \Delta L_{0}(q_{a}) - L_{error}$
 $L = \Delta x_{c,g}nW + (-91q_{a})\alpha_{gust} + (-18q_{a}) + 2.16 F_{N} - \frac{38,500}{q_{a}} + M_{error}$
 $L = -\Delta x_{c,g}nW - 0 - 0 - 1.81 F_{N} - (\frac{-43,000}{q_{a}}) - L_{error}$
 $L = -nW - (280 q_{a})\alpha_{gust} - (-31 q_{a}) - 0 - 0 - 2_{error}$

NOTE: Gust angle-of-attack

 $L = -nW - (280 q_{a})\alpha_{gust} - (-31 q_{a}) - 0 - 0 - 2_{error}$

Alteriar of gravity position

 $L = -nW - (280 q_{a})\alpha_{gust} - (-31 q_{a}) - 0 - 0 - 2_{error}$

Alteriar of gravity position

 $L = -nW - (280 q_{a})\alpha_{gust} - (-31 q_{a}) - 0 - 0 - 2_{error}$

CENTER OF GRAVITY POSITIONS

		Neutra		Forward c.g.			
Gross Weight (1b)	Fuel Loading Condition		Inches Δ_{y} c.g.	Inches Δx	Inches $\Delta_{\mathbf{y}_{\mathtt{c.g.}}}$		
4800	Full fuel (700 lb)	32	- 4.1	- 1.98	- 4.1		
4580	Main Fuel (480 lb)	+ .32	- 5.05	- 1.32	- 5.05		
4100	Zero fuel	0	- 5.1	- 1.68	- 5.10		

Sign convention:

 Δx + indicates aft displacement

 $\Delta_{y_{c.g.}}$ + indicates right displacement

NOTE: These must be converted to feet before being used in the equations of Volume I.

Rotor vibration modes. - The theoretical variation of the natural frequencies of the single blade vibration modes of the 35-foot, 4-blade rotor of the XH-51A compound helicopter are shown in Figure 27. The low ratio of blade first flap frequency to rotor rotation rate, P = 1.11, at 100% rpm should be noted.

The theoretical mode shapes associated with first and second blade flapping, first in-plane and first torsion modes are shown in Figures 28 through 30. A comparison of the first flapping mode shape with a linear mode (or rigid blade, root hinged) and the parabolic mode employed in the analyses of Volume I shows it to lie almost midway between the two approximate shapes. It would be expected, therefore, that neither approximate mode would yield answers very close to experiment for this very flexible blade.

At zero rpm, on the other hand, the calculated first flap mode shape rather closely approximate a parabola, as shown in Figure 31. The figure also shows experimental confirmation of the theoretically predicted shapes of the higher flapping modes. The 35-foot 4-blade rotor of the XH-51A

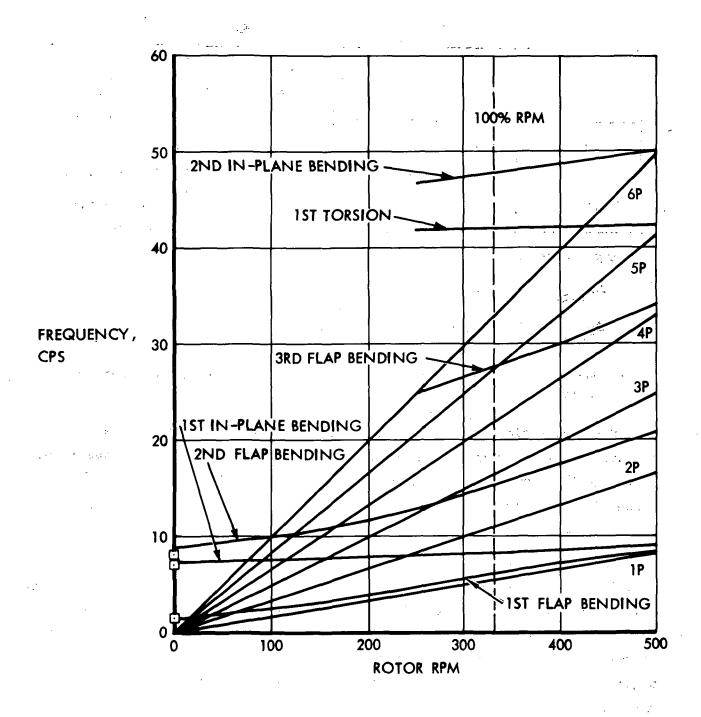


Figure 27. Single Blade Natural Frequency Variation with rpm for the XH-51A Compound Helicopter

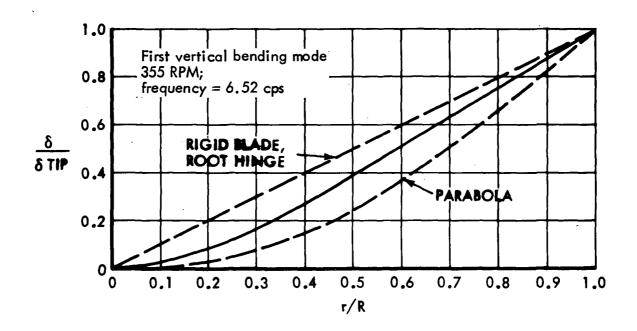


Figure 28. Theoretical Single Blade Flap Bending Mode Shapes at 355 rpm for the XH-51A Compound Helicopter

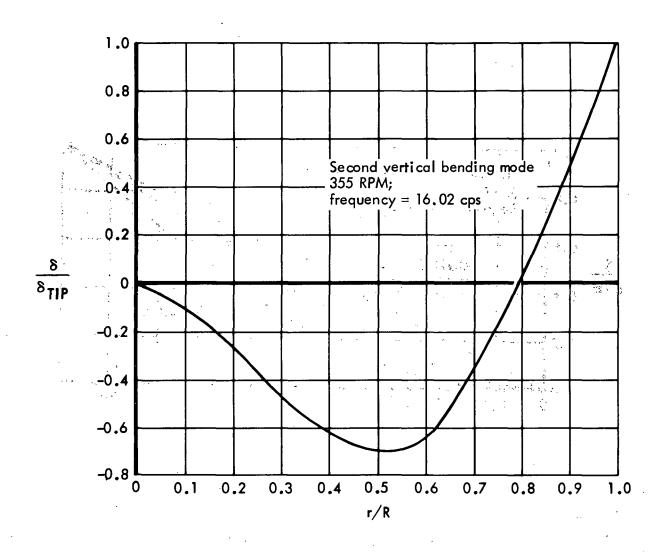
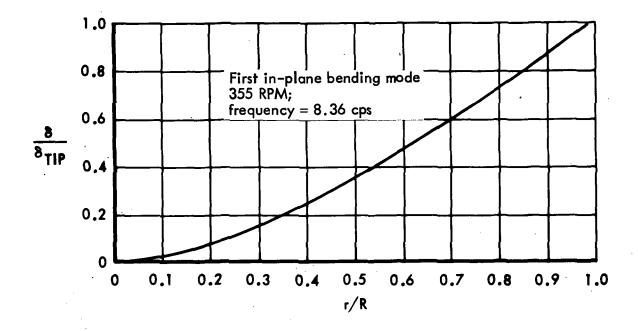


Figure 29. Theoretical Single Blade Flap Bending Mode Shapes at 355 rpm for the XH-51A Compound Helicopter



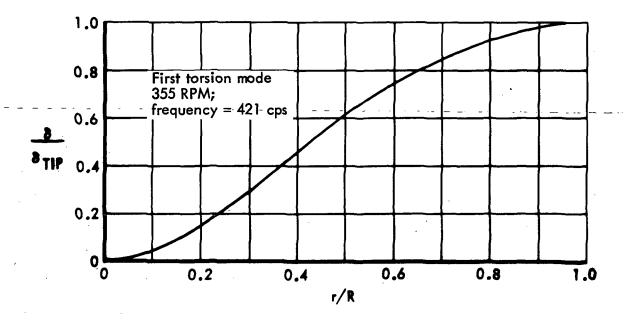


Figure 30. Theoretical Single Blade First In-Plane and Torsion Modes for the XH-51A Compound Helicopter

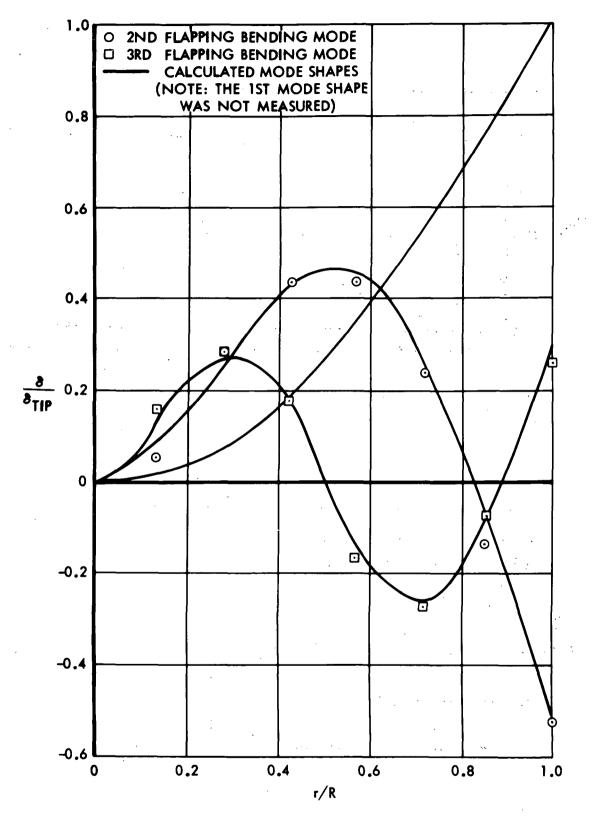


Figure 31. Comparison of Theoretical and Experimental Single Blade Flapping Mode Shapes at Zero rpm for the XH-51A Compound Helicopter

compound helicopter calculated and experimentally measured rotor and blade natural frequencies occurring at zero rotor rpm at various collective pitch settings are shown in the following table:

Natura	al Frequenc	y, Nonr	otating	(c.p.s	.)		
	$\theta_{o} = .5^{\circ}$	3.75°	10 ⁰	10°	10.5°	11.5°	17.75°
Mode Description	Theory	Test	Test	Theory	Theory	Test	Test
First In-plane (Blades Opposing)	8.2	8.29	7.14	7.09	7.38	7.22	6.51
First In-plane (Blades in-phase)		. 7.03	- -				
Second In-plane	41.7	46.5		•	41.7		
First Vertical Bending	1.51	1.5	1.5	1.48	1.56	1.5	1.5
2nd Vertical Bending	8.40	7.85	8.23	8.51	8.78	8.16	8.96
3rd Vertical Bending			19.58	18.6			
lst Torsion	50.7	24.4	25.6		44.8		24.4

TEST CONDITIONS

The previous section described the physical properties of the rotor system in detail. This section describes the conditions under which the rotors were tested. The 33-foot and 7.5-foot rotors were tested in wind tunnels and the 35-foot rotor in free flight. A set of test conditions specifies the values of the variables which are under the control of the experimenter. (In the case of a free flight vehicle, body motions and control position are not independent of each other.) A typical set might be as follows:

Rotor rotation rate	Ω
Wind speed	V
Air density	ρ .
Body pitch rate	ė
Body roll rate	Φ.
Body normal acceleration	ž
Cyclic pitch	θ_{lc} , θ_{ls}

Collective pitch θ_{o} Rotor angle-of-attack α

summarized below, for reference:

In addition, a summary is made of the dimensions and basic properties, in nondimensional form, of each rotor.

33-Foot 3-Blade Rotor

The fundamental geometric properties of the 33-foot 3-blade rotor are

Effects of Configuration Element	Element		Magnitude
Basic Rotor and Size	Number of blades	b	3
	Soliditity	σ	0.0675
	Radius	R	16.5 ft
Swashplate Forces	Sweep angle Mechanical advants Cant angle Sweep ratio	Λ age k ψ \circ $\frac{b\Lambda}{\sigma}$.0262 radians 1.14 60 degrees 1.163
External Forces	Blade twist rate	θt	571 degrees/ft.
	Blade precone	βο	2.25 degrees

The conditions for the 29 cases tested on the 33-foot 3-blade rotor are summarized in Table I.

7.5-Foot 4-Blade Rotor

The fundamental geometric properties of the 7.5-foot rotor are summarized as follows:

Element	Magnitude	
Number of blades	Ъ	14
Solidity	σ	.127
Radius	R	3.75 ft

Table II contains the blade aerodynamic, mass, and stiffness conditions tested in the U.S. Army's AMRDL 10-foot wind tunnel at the Ames Research Center. In addition, the actual values of rpm and tunnel speed together with the ranges of angle-of-attack, cyclic pitch and collective pitch tested at each condition are shown. This data taken from Reference 4.

35-Foot 4-Blade Rotor

Reference 2, Volumes I, II, and III, contains a body of reduced flight recorded data concerning blade flap bending moment and section lift variation with azimuth. The data is of good quality and covers compound helicopter flight from hover to lightly loaded rotor flight at advance ratio in excess of $\mu = .6$.

The utility of the data is improved, however, if additional information about the flights and the rotor itself are made available. A previous section of this report furnished the information about the rotor - gyroscope - airframe system and this section furnishes new flight information such as air density, speed of sound, rotor rpm, cyclic pitch, pitch, and roll rate.

The new information is included with key data already published in Table III, ref. (2). Only data for the 11 flight cases having advance ratio greater than μ = .3, and a full set of reduced experimental results are included in the table.

The fundamental rotor and swashplate geometric properties of the XH-51A compound are summarized below:

Effects Of Configuration Element	Element		Magnitude				
	Number of blades	ъ	4				
Basic Rotor and Size	Solidity	σ	.0818				
	Radius	R	17.5 ft				
	Sweep angle	٨	.0244 radians 1.4 degrees				
Swashplate Forces	Mechanical advanta	ge k	1.4				
Swabiip 1800 Toroco	Cant angle	Ψο	45 degrees				
·	Sweep ratio	<u>bΛ</u>	1.195				
	Blade twist rate	θ _t	286 degrees/ft				
External Forces	Blade precone	βο	3.2 degrees				
	Droop		- 1.0 degrees				

TABLE I. 33-FOOT 3-BLADE ROTOR - WIND TUNNEL TEST CONDITIONS

				ation ate	Win Spe			ir sity		First Flap Sw. Dynamics D					Cycle Ran			Angl	ive and e-of- ack
Test No.	7	rpe of est	RPM	Ω rad/sec	Knots	V Tps	slue	p/ft ³	, μ	P	Y	Yr	ker	kes	elC qearees	degrees 0 _{IS}	0,		a°
1	Fixed S	rashplate	98.7	10.34	49.38	83.4		0023	0.489	2.06	4.57	-	-	-	.382 2.616	-2.336 .701	1	.5	0.
2			60.8	6.37	48.04	81.1	1		0.772	3.05	1	-	-	-	115 4.219	-3.437 .780	1	۱ ا	1.
7			46.3	4.85	50.03	84.5			1.056	3.90		-	-	-	1.162 5.041	-4.198 .073			
- "			147.9	15.49	60.91	102.9			.403	1.56		-	· -	1	.217 3.234	-2.9 1.502		I	
5			73.3	7.68	59.96	101.3			.800	2.61		-	-	-	.517 3.402	-3.539 .665			
6			52.7	5.52	60.02	101.4			1.113	3.47			-	-	.274 4.877	-5.098 1.012			
7			137.4	14.39	69.19	116.9	·		.492	1.64		-	-	-	.080 2.000	-2.661 .710			0
8			135.3	14.17	68.45.	115.6			.495	1.65		-	-	-	.681 3.359	-2.744 .872			1.5°
9		,	86.4	9.05	69.30	117.0			.784	2.28		-	-	-	.322 2.760	-2.087 .342		i	0
10			60.2	6.30	69.40	117.2			1.127	3.08		-	-	-	1.450 4.161	-3.429 469			1
11			34.2	3.58	68.66	116.0			1.962	5.16		-	-	-	1.397 5.470	-3.003 .311			
12			197.2	20.65	80.59	136.1			0.399	1.35		-	-	-	.529 3.141	-2.970 .792			
13			153.2	16.04	82.76	139.8			0.528	1.53		-	-	-	.240 2.869	-3.514 277			
14			100.2	10.49	82.78	139.8			0.808	2.03		-	-	-	.736 3.266	-2.931 .469			
15		,	72.1	7.55	82.68	139.6			1.121	2.64		-	-	-	1.563 3.907	-3.362 .823			
16	Pixed S	washplate	38.0	3.98	82.88	140.0			2.132	4.67		-	-	-	1.981 4.822	-3.758 379		ŀ	
17	Free Sv	ashplate	197.2	20.65	81.67	137.9			0.405	1.35		4.80	.025	.285	.177 3.580	-3.248 .312			i
18	Pree Sv	ashplate	152.6	15.98	81.26	137.2			0.521	1.53	Ш	3.72	.032	. 367	003 3.971	-3.391 .959			
19	Pixed S	vashplate	177.7	18.61	89.80	151.7			0.494	1.41		-	-	- 1	.362 3.573	-2.0 .199			1
20			81.4	8.52	89.37	150.9			1.073	2.39		-	-	-	1.101 2.561	-2.178 .090			0
21			81.0	72.1	89.56	151.3			1.081	2.40		-	-	-	1.388 3.938	-3.162 .622			1.00
22			42.7	4.47	88,28	149.1			2.04	4.20		-	_	-	1.890 4.316	-5.449 -2.207			0
23			242.6	25.41	101.91	172.1			0.41	1.25		-	-	-	.721 3.016	-2.441 153			
24	Pixed St	eshplate	194.1	20.33	101.87	172.1			0.513	1.36		-	-	-	.372 2.531	-2.900 482			
25	Pree Sv	ashplate	243.4	25.49	102.93	173.8		·	0.413	1.25		5.88	.020	.231	.729 2.427	-1.755 200			
26			193.1	20.22	102.85	173.7			0.521	1.36		4.70	.026	.291	.892 3.210	-2.541 .085			
27			322.4	33.76	120.54	203.6			0.365	1.18		7.75	.015	.174	.675 1.936	-1.856 527			
28			232.9	24.39	119.92	202.5		ļ	0.503	1.27		5.64	.021	.241	.994 2.993	-2.744 145		,	
29	Pree Sv	shplate	148.8	15.58	119.98	202.6	٠.	0023	0.788	1.56	4.57	3.63	.033	.377	1.336 3.649	-2.169 967	1.	.5	0

BOTE: At each test condition, 10 to 16 different cycle pitch combinations were tested.

TABLE II. 7.5-FOOT 4-BLADE ROTOR WIND TUNNEL TEST CONDITIONS

	Rotation Wind Air Rate Speed Density				First Flap Dynamics					Controls and Rotor Position Ranges					
Config.	RPM	Ω rad/sec	Knots	V ft/sec		ρ slugs/ft ³		р		Р Ү		θ _{1C} degrees	01S degrees	θ _O degrees	a degrees
1	800	83.7	54.0	91.0	.0	023	0.29	1.3	33	5.	٥	-1.2377 4.5725	-4.441 3.129	0 3.971	-3.003 0
		1	74.4	125.5	,		0.40		·	İ		-1.868 4.378	-	-	-3.003 0
			100.2	169.3			0.54					-1.410 4.189	-2.218 1.381	0 2.418	-3.003 0
	800	83.7	123.0	207.2			0.66	1.3	33		ŀ	-1.008 3.673	-2.189 .831	0 1.942	-3.003 0
·	550	57.5	55.0	92.7			0.43	1.5	6			-	-	-	-3.003
	1	1	74.0	125.0			0.58	1				1.209	1.461 3.959	011 3.438	-3.003 0
	$[\]$		100.6	170.2			0.79					-1.169 3.512	-2.831 .923	017 2.441	-3.003 0
	550	57.5	122.8	207.0			0.96	1.5	6			533 2.842	-2.132 .647	0 1.931	-3.003 0
	300	31.4	54.4	91.9			0.78	2.3	32	1		-4.361 4.160	-6.223 3.329	0	-3.003 0
		1 1	74.6	126.0			1.07	1			İ	-3.289 4.120	-4.401 2.109	0	-3.003 0
			100.5	169.7			1.44				İ	-1.610 3.432	-2.481 1.473	0 2.441	-3.003 0
1	300	31.4	122.0	206.0		į	1.75	2.3	32			-	-	0 1.473	-3.003 0
3	800	83.7	54.0	91.0			0.29	1.5	55			-2.149 3.799	-3.472 1.988	0	-3.003 0
	1	İ	74.5	125.7			0.40	1				-1.117 3.312	-3.512 .871	.011 2.939	-3.003 0
			100.3	169.7			0.54					923 3.237	-	011 2.023	-3.003 0
	800	83.7	122.6	207.0			0.66	1.5	55			682 3.570	-2.338 .493	.011 1.410	-3.003 0
	650	68.0	54.4	91.8			0.36	1.7	73			-2.378 3.959	-3.982 2.091	011 2.028	-3.003 0
		İ	74.0	125.0			0.49					-1.759 3.919	-3.369 372	011 2.510	-3.003 0
	$ \downarrow $		99.8	168.1			0.66					011 2.882	-2.492 1.008	017 1.518	-3.003 0
	650	68.0	121.0	204.0			0.80	1.7	73			.229 1.513	-1.060 .762	0 1.501	-3.003 0
	400	41.9	55.0	92.6			0.59	2.3	32			-3.312 4.710	-5.621 2.091	.051 5.002	-3.003 0
		1	74.5	125.8			0.80		İ			-1.942 3.788	-3.902 1.008	029 3.982	-3.003 0
·			100.5	169.7			1.08					-	-	-	-3.003 0
3	400	41.9	122.0	206.0	.0	023	1.31	2.3	32	5.	0	-		_	-3.003 0

TABLE III. XH-51A COMPOUND HELICOPTER FLIGHT TEST CONDITIONS

Body Motions Positions, degrees		rad/sec dic dis do	rad/sec 4 _{IC} 8 _{IS}	Fedfact tr 818 60	rad/sec 4 _{IC} 6 _{IS} 9 _O 6 0 1.24 -1.71 3.27 0 1.02 -1.48 3.15	o 1.24 -1.71 3.27 0 1.00 1.00 1.00 1.00 1.10 3.24	o 1.24 -1.71 3.27 0 1.02 -1.48 3.15 006 1.09 -1.11 3.34 011 1.08 -1.11 3.34	rad/sec 4 _{1C} 6 _{1S} 6 ₀ 6 0 1.24 -1.71 3.27 0 1.02 -1.48 3.15 006 1.09 -1.16 3.24 011 1.08 -1.11 3.34 026 1.42 -2.36 3.37 1	rad/aec ⁶ IC ⁶ IS ⁶ O ⁶ O ⁶ O ⁶ O ⁶ O ⁶ O ⁶ O ⁶ O	Tad/acc b _{IC} b _{IS} b _O b _O color and acc b _{IC} b _{IS} b _O color and acc b _{IC} color acc	\$\phi\$ \$\phi\$ \$\phi\$ \$\phi\$ 0 1.24 -1.71 3.27 0 1.02 -1.48 3.15 006 1.09 -1.16 3.24 011 1.08 -1.11 3.34 026 1.42 -2.36 3.37 +.006 1.19 -2.15 3.52 007 1.10 -2.19 3.76 0 1.25 -2.69 3.17	Fad/sec tr 618 60 0 1.24 -1.71 3.27 0 1.02 -1.48 3.15 001 1.08 -1.11 3.34 026 1.42 -2.36 3.37 +.006 1.19 -2.15 3.75 007 1.10 -2.19 3.76 0 1.25 -1.69 3.17 019 1.21 2.43 3.56	Fad/sec tr 6 18 60 0 1.24 -1.71 3.27 0 1.02 -1.48 3.15 006 1.09 -1.16 3.24 011 1.08 -1.11 3.34 026 1.42 -2.36 3.37 +.006 1.19 -2.15 3.52 007 1.10 -2.19 3.76 0 1.25 -1.69 3.17 019 1.21 -2.43 3.56 020 1.03 -1.89 3.60
	rad/sec brc brs			1.24 -1.71	0 1.24 -1.71	0 1.24 -1.71 0 0 1.02 -1.48 0 -1.06 1.09 -1.16	0 1.24 -1.71 0 1.02 -1.48 006 1.09 -1.16 1.16 -1.11	0 1.24 -1.71 0 1.02 -1.46 006 1.09 -1.16 011 1.08 -1.11 026 1.42 -2.36	0 1.24 -1.71 0 1.02 -1.48 006 1.09 -1.16 011 1.08 -1.11 026 1.42 -2.36 +.006 1.19 -2.15	0 1.24 -1.71 0 1.02 -1.48 006 1.09 -1.16 011 1.08 -1.11 026 1.42 -2.36 +.006 1.19 -2.15	0 1.24 -1.71 0 1.02 -1.48 006 1.09 -1.16 011 1.08 -1.11 026 1.42 -2.36 +.006 1.19 -2.15 007 1.10 -2.19	0 1.24 -1.71 0 1.02 -1.48 006 1.09 -1.16 026 1.42 -2.36 +.006 1.19 -2.15 007 1.10 -2.19 0 1.25 -1.69 019 1.21 -2.43	0 1.24 -1.71 0 1.02 -1.48 006 1.09 -1.16 011 1.08 -1.11 026 1.42 -2.36 +.006 1.19 -2.19 007 1.10 -2.19 0 1.25 -1.69 019 1.21 -2.43 020 1.03 -1.89
e rad/sec ⁶ IC			1.24		1.02	1.02	0 1.02	0 1.02 006 1.09 011 1.08 026 1.42	0 1.02 006 1.09 011 1.08 026 1.42 +.006 1.19	0 1.02 006 1.09 011 1.08 026 1.42 +.006 1.19	0 1.02 006 1.09 011 1.08 026 1.42 +.006 1.19 007 1.10	20.1 0 0	0 1.02 006 1.09 011 1.08 026 1.42 +.006 1.19 007 1.10 0 1.25 019 1.21
e e rad/sec				.012		,							
kcs tion g t/sec2	~	1		.032 1.6	A 1						 		
ker kes	9		l	•	032	-	9	 	 	 	 	 	
ر الم			18.7	18.4	18.4		16.7						
	_		6.15	6.05	;	6.05	5.52	5.52	5.52 5.52 5.70 6.05	5.52 5.70 5.70 6.05	5.52 5.70 5.70 6.05 6.05	6.05 6.05 6.05 6.11 6.15	6.05 5.72 5.70 6.05 6.05 6.11 6.11 6.05
	α,		2 1.10	9	ļ.,	_			2 7 5 8				
_	<u> </u>		.422	.536	5,80	<u>}</u>	. 69.	. 601	.322	.322 .317	.601 .601 .322 .322 .317	. 530 . 533	.533 .512 .530
	Speed of Sound ft/sec		1112	1112	1112	•	1103	1103	1103	1103	1103	11080 1080 11112 11112 11113	1103 11080 11112 11111 11113
Air	8 A	•	.00235	.00231	.0000	.00231	.00231	.00218	.00218	.00231	.00231 .00231 .00234	.00231 .00231 .00231 .00231 .00234	.00231 .00218 .00231 .00235 .00235
obeed (tide)	r/sec		276	349		383	393	391.5 265	391.5 265 212.5	391.5 265. 212.5 209	391.5 265 212.5 209 347	391.5 265. 212.5 209 347	391.5 265. 212.5 209 347 347
	Knots		163.5	207		227	227	227 232 157	227 232 157 126	227 232 157 126 126	227 232 157 126 124 206	232 232 157 124 206 206	232 157 126 124 206 206
	nad/sec		37.4	37.2		37.2	37.2	37.2	37.2 37.2 37.2	37.2 37.2 37.2 37.7	37.2 37.2 37.2 37.7 37.7	37.2 37.2 37.2 37.7 37.4	37.2 37.2 37.7 37.7 37.4 37.4
Mare	RPM		357	355		355	355	355 355 355	355 355 355 359	355 355 359 359	355 355 359 359 359	355 355 359 359 357 355	355 355 359 359 357 357 359
	Normal Load Factor		1.08	1.05		1.15	1.15	1.15	1.15 1.05 1.05	1.13 1.05 1.32 1.61	1.15 1.05 1.32 1.61 1.61	1.15 1.05 1.32 1.61 1.38 1.61	1.15 1.05 1.05 1.61 1.61 1.63 1.63
	c.g. Position inches	Δy	-1.6 -4.1	•	1								
		Δ×	-1.6										
	Gross Test* Weight No. 1b		5100	1,980		5110	5110	5110 4940 5026	5110 4940 5026 5150	5110 4940 5026 5150 5150	5110 4940 5026 5150 5150 5030	5110 4940 5026 5150 5150 5030	5110 4940 5026 5150 5150 5030 5030
	Test.		25	26		27	27 31	27 33	27 33 33	33 36 37	38 H 38 H 33	33 33 33 33 34 50 50 50 50 50 50 50 50 50 50 50 50 50	F P 38 33 33 33 33 33 33 33 33 33 33 33 33

Whest number taken from reference (2), webmad on section lift curve alope a = 2m, essector angle of attack of of the -6.0°

APPENDIX

ANALYSIS AND PRESENTATION OF EXPERIMENTAL DATA

Theoretical analyses disclosed important characteristics of each of the rotor systems tested. This section discusses the analyses performed on the experimental data to produce values of the characteristics for comparison with theory. Also discussed is the form of results presented. The form was as general as practical to simplify the theory comparison, to facilitate understanding of the basic physical processes in rotor systems and to make the results useful for helicopter preliminary design.

33-Foot, 3-Blade Rotor

The following measurements, made in each steady state test of the 33-foot rotor, were analyzed to determine rotor system characteristics.

- a. Feathering pitch of each blade.
- b. Rotating shaft bending moment, 11 inches below the disk plane.
- c. Stationary axis shaft pitch and roll moments, 36 inches below the disk plane.
- d. Stationary axis swashplate pitch and roll moment.
- e. Blade bending moment at stations 43 and 118.
- f. Blade in-plane bending at stations 21 and 69.

At each rpm, forward speed condition between 10 and 15 combinations of cyclic pitch were tested. Cyclic pitch components θ_{1c} and θ_{1s} were determined by analysis of the blade feathering pitch variation with azimuth and depended on an accurate marking of the zero azimuth position; number one blade aft.

<u>Shaft-transmitted forces</u>. - From the recordings of rotating shaft bending moment 11 inches below the disk, transformed to stationary coordinates, and stationary axis moments measured 36 inches below the disk, the

horizontal shaft shears and hub moments at the disk in stationary axes were determined as functions of azimuth.

Hub moment, swashplate moment, and shaft shear components were each harmonically analyzed into the following form for each combination of cyclic pitch tested.

$$F = F_0 + F_{1c} \cos \psi + F_{1s} \sin \psi + \dots F_{10c} \cos 10\psi + F_{10s} \sin 10\psi$$

Theoretical considerations indicated that all terms but F_0 , F_{3c} , F_{3s} , F_{6c} , F_{6s} would be zero and calculations showed that F_{6c} , F_{6s} and above of the non-zero terms would be very small. Experimental results did, in fact, confirm that F_{6c} , F_{6s} and above were negligibly small but they also showed F_{1c} , F_{1s} , F_{2c} , F_{2s} , were often quite large. These values must have been produced by aspects of the rotor not considered in the theory, such as lack of symmetry in the blades and perhaps offset mass centroid, etc. At any rate all terms were discarded but the F_0 , F_{3c} and F_{3s} .

Appendix Table I contains the hub moment, swashplate moment, and shaft shear force mean and 3P components in dimensional form for each combination of cyclic pitch at each rpm, forward speed condition. Computer output labels are defined and units specified as follows:

Symbol		Computer <u>Label</u>	Units
$\theta_{1_{\mathbf{c}}}$		TlC	degrees
θ_{l_S}		TlS	degrees
Shaft roll bending	ll inches	Lsb	in-lb
Shaft pitch bending	below disk	Msb	in-lb
Shaft roll bending	36 inches	Llc	in-lb
Shaft pitch bending	below disk	Mlc	in-lb
L ,		Lh	in-lb
M		Mh	in-lb
X		Fx	lb
Y		Fy	lb
$^{ m M}oldsymbol{\Phi}$		Lsp	in-1b
$^{ m M}$ 6		Msp	in-lb

The table also contains the deviations, denoted by d(), of each experimental data point from an imaginary plane of its force or moment component versus θ_{lc} and θ_{ls} as determined by the constraint that the plane be positioned so that the square root of the sum of the squares of all the deviations from the plane is a minimum. The rms value of the deviation, leveled by SIGMA, is also shown.

The deviations furnish an indication of the linearity of the data. The data appears to be approximately linear with the deviations apparently due to random scatter.

The best fit plane through the data furnishes the experimental force and moment derivatives with respect to the two cyclic pitch components, and the residual values when $\theta_{lc}=\theta_{ls}=0$. These data are also shown in Table I in dimensional form.

The causes of oscillations in stationary coordinates may be physical phenomena that exist primarily in the stationary coordinate system such as body longitudinal and lateral vibration modes.

If, for example, the source is body oriented so that the 3-perrevolution oscillations are in the lateral direction only then an examination
of the resonance in rotating coordinates would show it to split up into 2-perrevolution advancing and 4-per-revolution regressive components of equal magnitude. If, on the other hand, the phenomena is associated with a resonance
of a blade in rotating coordinates, for example, a flapping resonance at
2-per-revolution then there will be essentially no 4-per-revolution and in
stationary axes the oscillation would appear as a circular advancing 3-perrevolution rotor tip path plane precession.

In studying the oscillatory experimental data in Table I it is, therefore, prudent to transform it to rotating coordinates, at each combination of cyclic pitch, and to examine the 2- and 4-per revolution content. In certain test conditions the 4P parts are less than 1/10 the 2P parts. The two analyses then should allow the source of the oscillatory behavior to be isolated. Table I lists the hub moment and shaft shear components transformed to rotating coordinates, the 2P and 4P components of each one displayed. They

are the cosine components on the values of the vectors at $\psi = 0$ and are denoted by $^{M}_{2c}$, $^{L}_{2c}$, $^{M}_{4c}$, $^{L}_{4c}$, $^{Y}_{2c}$, $^{X}_{2c}$, $^{Y}_{4c}$, $^{X}_{4c}$.

The specific purpose in showing the resolution of the hub moment and shaft shear forces into 2P and 4P components at <u>each</u> combination of cyclic pitch is to show that both components depend on the cyclic pitch in an essentially linear way. With this established then it is possible to work directly with the best fit plane derivatives and residuals of the 3P sine and cosine components of the forces in stationary axes. The smoothed stationary axis data are then resolved into rotating coordinate components. They are then nondimensionalized, given per radian of cyclic pitch, and presented as the final data in the summary, Appendix, Table II.

Blade bending moments. — At a tunnel wind speed of 80 knots, blade flapping bending moments at stations 43 and 118 and in-plane bending moments at stations 21 and 69 were read from oscillograph traces at closely spaced intervals of azimuth for each combination of cyclic pitch tested at the five tested values of advance ratio $\mu = .4$, .5, .8, 1.1, and 2.0.

Appendix Table III contains the flap bending moment azimuthal distributions of blades 1, 2, and 3 at station 43, blade 2 at station 118, and in-plane bending moments on blade 2 at stations 21 and 69 in dimensional form harmonically analyzed to 10 cycles per revolution. Bending moments are in inch-pounds.

The flapping bending moment data were analyzed to provide the rates of change of bending moment azimuthal distribution with the cyclic pitch components θ_{lc} , θ_{ls} ; $\alpha = 0$ and $\theta_{.75R} = 1.5$ degrees.

The flap bending moments were made into nondimensional coefficient form paralleling the form of the hub moment coefficients,

$$C_{b \cdot m} = \frac{b \cdot m}{\rho (\Omega R)^2 \pi R^2 R}$$

and the results were made even more general by presenting them in the form $\frac{b}{\sigma}$ C_{b.m.}. This, in effect, converted the nondimensionalizing area from that of the disk πR^2 to that of the blade CR.

In this form the azimuthal distributions of flap bending moment derivatives became general enough to be applicable to any rotor at the same advance ratio μ , flap frequency P, and Lock number Y.

The residual distributions would require, in addition, that the rotor possess the same twist, precone, collective pitch, and angle-of-attack.

Each blade flapping bending moment distribution was analyzed for its derivatives and residuals by forming a best fit plane of each component of its harmonically analyzed data, to the fourth harmonic, versus $\theta_{\rm lc}$ and $\theta_{\rm ls}.$ Deviations, denoted by DEL, of each component at each combination of cyclic pitch from the best fit plane are shown in Appendix Table IV, Part a. The analyses were cut off at the fourth harmonic after an inspection of the higher harmonic data disclosed very little significant information.

The residuals and derivatives with θ_{lc} and θ_{ls} of each of the harmonic components is shown in Appendix Table IV, Part b, and from these harmonic components, the distribution of blade flapping bending moment around the azimuth, ψ (PSI), were calculated and presented in Appendix Table IV, Part c.

7.5-Foot, 4-Blade Rotor

The hub moments of the 7.5-foot, 4-blade rotor were determined by measuring the blade flapping bending moments at radial station 3.3 inches on configuration 1 and station 3.9 inches on configuration 3 on all four blades. The flapping bending moments were ganged together to provide total rotor moment and then transformed, by a resolving network, into stationary coordinates. The moments were factored appropriately, at each rpm, to convert the measured moments into hub moments applied to the shaft. The collective pitch, cyclic pitch, and angle-of-attack of the rotor were recorded during each test.

The hub pitch and roll moment variations with azimuth, at each combination of cyclic pitch, collective pitch, and rotor angle-of-attack at the test conditions of advance ratio μ , and flap frequency ratio P, at the Lock number Y = 5.0 were harmonically analyzed and the mean and 4P components retained. They are found nondimensionalized in Appendix Table V.

The hub moments are nondimensionalized in the conventional way, namely:

$$C_{m} = \frac{M}{\rho(\Omega R)^{2} \pi R^{2} R}$$

and the data presented in Table V is further divided by solidity to make it more general. The interpretation of the computer output labels is as follows.

	•	Units
THO	θ_{O}	radians
THS	$ heta_\mathtt{S}$	radians
THC	$\theta_{\mathbf{c}}$	radians
AL	α 	radians
CM	C _{mo}	
CL	C _{lo}	
CM4PC	Cm4c	
CM4PS	$\frac{c_{m4s}}{\sigma}$	
CL4PC '	C _{luc}	
CLAPS	C _{lus}	

The hub moment coefficients in stationary axes coordinates, as a function of azimuth, are, therefore,

$$C_{m} = C_{mo} + C_{m4c} \cos 4\psi + C_{m4s} \sin 4\psi$$

$$C_{\ell} = C_{\ell o} + C_{\ell 4c} \cos 4\psi + C_{\ell 4s} \sin 4\psi$$

All higher harmonics have been neglected.

At each test condition, if μ and ρ at Y = 5.0, changes were made in one control or rotor position angle at a time. It was, therefore, possible to employ a one-dimensional least squares fit of the moment component variation, instead of the more complicated two-dimensional best fit plane required for the 33-foot rotor. This resulted in mean and oscillatory aeroelastic derivatives of hub moments with respect to cyclic pitch, collective pitch, and angle-of-attack. No residuals are presented since they should be zero according to the theory. In actual fact the small values that occurred may have been due to body flow field effects.

The derivatives of the 4-per-revolution coefficients in stationary axes were transformed to 3P and 5P coefficients in rotating coordinates and are presented in Table VI at each μ , P test condition for the Y = 5.0 rotor. It should be noted that the derivatives are for the zero azimuth position $\psi = 0$ or are the values of the cosine coefficients. The flag (FIG) numbers 1, 2, 3, and 4 denote derivatives with respect to θ_0 , θ_{ls} , θ_{lc} , and α , respectively.

35-Foot, 4-Blade Rotor

A detailed inspection of the analyzed flight test data presented in Reference 2 indicated that meticulous attention had been paid to its preparation. Furthermore, the data appeared to be in a usable form as it stood. Additional analyses, for example, to obtain rotor aeroelastic derivatives could not be performed due to the free flight nature of the tests producing the data.

Employment of the data for the purpose of checking the applicability of rotor theory, however, was hampered by a lack of detailed information about the flight vehicle and the tests themselves. This report, therefore, has attempted to supply the missing details about the vehicle and information about eleven of the flight tests.

No repetition of the experimental data of Reference 2 is contained in this report.

Table I. 33-Foot 3-Blade Rotor Reduced Experimental Dimensional Hub and Swashplate Loads Data

TEST	1 (OCKED GA	RO MODE											
	• 41,3		• 11,7	#U - 0 TO CYCL!!		- 1,06			•					
		BOWS :4		045:d(T1		(HEAR C		•					,	
	14(0)									•			•	
	Lh)	d(IM)	-	4(FE) -24.53		Fy)								
17	24.33 26.66 13.79	15691 -4919 2325	. 72 . 48	-26.55 -8.18 -59.48	••	27.41 60.16 72.61								•
	TIC	715	Lsb	: Mab	Lle	Mic	Lh	d(Lh)	100	d(Mh)	Fx	4(*x)	Fy	4(Fy)
1	1.759	652	1810. 1286.	4686.	6987. 16492.	54 28. 13082.	-472. -177.	-722. -381.	4758. 13357.	-1155. -361.	30.	34. 17.	-207. -405.	19: -7:
3	.382 1.507 2.317	.051 734 -1.190	2900.	13618. 6266. 1155.	6366. 3369.	4537. 2339.	490. -1473.	945.	6160. 633.	-122. -181.	-13. 11. 47.	76	-219. -134.	23.
į	2.010	-1.716	-650. 1182.	-1960. 9761.	775.	-117. 5632.	-989. -1341.	285.	-2616. 4374.	-1238.	\$1. 35.	26	-19. -233.	-ii:
į	1.177	-1.601	-2920. -4132.	6761. 9501.	2434. 997.	#223. 11601.	-5277. -6389.	-716. 969.	8112. 8570.	117.	50. 64. -21.	-14.	-916	-21.
į	1.708	-1.334	2984.	5670. 5273.	7667. 13107.	5149. 3997.	813. 3556.	786. 212.	5896 5835.	129. 973.	-11. -51.	-24. -1.	-205. -197. -265.	, 30. -30.
11	2.219	.041 .701	5480. 5446.	1230.	15625.	1201.	6717.	199.	3374.	1133.	-1 11 .	-34.	-267.	ï:
8100	4							719.		852.		21.	-	17.
MUS	M'ME PT	OE-IVATI	VES DUE	TO CYCL	C AMBLES	13P co	COMPONE	rat)						
	1:4(0)			ROW3 : d (T :			-	•						
	(Ih)	d (##	h)	d(Fa)	d	(Fy)								
2	137.75	-2267	1. 25	-112.0		142.35								
}	515.04 003.25	-27671 1085 -3421	1:34	-212.1	•	11:11								•
*	110	T18	Lsb	Psb	L1c	Mic	th	d('h)	Mh	d(Mh)	Fx	d(F2)	Fy	d(Fy)
1	1.756	652 .051	2761.	-1413. -20320.	-465. -15755.	-2411. -23407.	1355. 2966.	1036.	-11947.	36 f. -25 2.	-60. -123.	-30.	52. 320. 123.	,; ;
3	1.507	-1,190	-1427. -3128.	-20329. -2589. 5100.	-4496. 231.	-1911. 17111.	-74. -4609.	515. -2094.	-16947. -2643. 7767. 16058. -2869.	1353.	-123. -13. 120.	-26. 27.	123. -135.	· -11.
:	2.317 2.918 1.665	898	-1192	16172. -2479.	3634.	20855. -1836.	-4261. -103.	514. 691.	14058. -2869.	-785. -1015.		-1:	-131	25.
7	1.177	-1.801 -2.536 653	-10771. -16052.	-107.	-13628. -22075.	5303. 5676.	-5505. -13300.	-857. -112.		1176.	34. 215. 402.	-27.	116.	' -44. -51.
1	1,70g 2,219 2,616	653	-386. 9353,	-1883.	-1036.	-1681. -9415,	-347.	-317. -2378.	-6803. -1971.	-216. -2750.	-153,	-27	10.	-41. 30.
įi	2.616	.04] .701	11736.	-3590. 1775.	9210. 17454.	-5250.	\$351. 1110.	-ióib.	-1162. 1090,	1561.	-iii.	32.	-230.	-103.
\$16								1280.		1234.		23.		35.
-				TO CYCL		(3P 8)	M COMPONI	ENT)						•
	1:4(0)			ROW3 : d (T	18)									
	(Us)	4(14		d(Fx)		(Fy)								
10	\$12.\$0 \$23.61 313.50	2345	1.17 1.16 1.58	-677. \$ 315.00 -102.5	-1	145.37 5.05 178.02								
3	313.50	677	1.58	-102.5	-1	78.02								
=	TIC	TIS	lsb	Msb	I to	≈ le	16	4(1h)	Mh	d(Mh)	Fa	4(F=)	Fy	d(Fy)
1	1.756	652	1427.	426.	3025.	-955.	772.	-012.	1054.	1762.	-515:	. 1.	-64.	-44.
•	.302 1.507	734	20148. 3466.	-5106. -1981.	3952.	-10000. -3100.	3250.	-148. -121.	618. 602. -5029.	768.	-125.	3.	132.	17. -12.
3	1.317	-1.110 -1.716	-7806. -16407.	-3063. 1031. -1731.	-10857. -20634. 2789.	1562. 17474. -4033.	-6457. -14534. 3471.	-346. -178.	-3990.	-2561. 721.	185. • <u>5</u> 6. • 9 2.	31.	101	•
•	1.665 1.177 .557	-1.801	3264. 1570.	-11731.	-300h.	-15041.	3571. 3546. 6555.	1256. -617. 719.	-716. -10265.	786 -635	-132. -135.	-11. -10.	101.	12.
•	1.701	-2.336	1977.	-17138. -1067.	2213.	-14507. -1201.	1872.	-258.	-1007.	172. -388.		63.		4.
ji	2:016	.041 .701	3568. -1668.	6317. 10770.	7780. 4634.	5086. 12170.	1710.	2675. -1041.	6855. 10146.	1308. -803.	-11. 56.	-64. -11.	-158. -263.	-27
E1 @	MA.							1041.		1115.		37.		22.
HARM	10 111 C CO	RPONENT &		HUS	MORENTS			MUB SHE	AR FORCE			•		
#	TIC	Ť18	MAC.	LZC	MAC.	LAC	¥2¢	z2c	THE	zec ·				•
1	1.75	652	-447.	1217.	-125.	182.	54.	-11.	-2.	12.				
;	1.507	.051 734 -1.190	-11796. -2018.	1217. 1792. -338.	-130. 402.	1174.	520. 126.	-125. -126.	:1.	3.				
;	2.317	-1.716	7112.	-4854. -4125. -449.	655. -210.	245. -136.	-140. -337.	121.	25. 110.	1				
ţ	2.664	-1.601	-3160. -3052.	-1111.	311.	266.	127.	26.	4.	ii.				
ł	1.177 .557 1.701 2.215	-2.336	-3160. -3052. -1110. -1521.	-13610.	315.	266. 310.	269. 11.	****	-27.	4				
10 11	2.616	.041	-1586. 4510.	7603. 9047.	124. 388.	769. -675.	26. -143.	-101. -262.	-14. -67.	-11:				

Table I. (Continued)

TE	त र	roc <u>e</u> ta e	YEO HOUS											
AEI	- 48.	34 E74	- 60,2) - (M) - (1,77 #	- 3,45								
HUR	HORENT	PERIVAT	IVES NUT	TO EYELI	C AMGLE	S (HEAR)	COMPTRES NO	7)						
8/76	12:4(8)	NOW2:	4(T1C)	40V3:4(T)	18)									
•	(LA)	4(14	h)	d(fz)	34	(Fy)								
	293.67	1077	0.21	-50.93		210.12								
	764.23 344.58	-249	3.95	-41.19	,	11.25 -17.96								
•	716	T18	Lab	, Plate	Lle	Me	Lh	4(Lh)	-	4(10)	FE	4(F2)	Fy	4(Fy)
1 2	2.274	-1.091	1630.	4045.	3976.	3513.	-264.	266.	4277.	673. -699.	-11.	-17.	-172.	-1:
3	1.249	641 .344	2269. 4331.	6272. 19392.	8362. 11841.	5501. 8653.	-617. 1019.	-723.	6668. 11072.	-48b.	-41.		-300	12.
•	3.344 4.219	-1.208 -1.861	798. -61.	3722. 407.	5116. 2380.	3640. 1351.	-1105. -1165.	-242. 276.	1822. 279.	188.	31.	-1. 11.	-173. -92,	1. 3.
ţ	2.247	-1.364	-3025. 467.	-3657. 3570.	-1981. 4748.	-1535. 3523.	-3683. -1420.	-68%.	-4598. 3588.	-1050. 290.	-1.	- -8	-42. -171.	→.
:	1.693	-2.007	-797.	MAS7.	3708. -781.	4989. 7702.	-2782. -7145.	365.	3615.	-195. 333.	38.	-1.	-188. -177.	:: ::
10	2.470 3.450	584	3809.	3243.	#131. 11388.	2688. 788	1902.	752. -61.	3574.	151.	-34. -72.	-3.	-173. -188.	-1.
810							*****	394.	*****	145.	••••	4.		7.
		DERIVAT	IVER PUE	TO CYCLE	C ANGLE	8 (3P cos	COMPONE					••		••
	114(8)			ROWS : d(T)										
4	(Lh)	4(10		d(Fg)		(Fy)								
	828.27	-175		-131.15	-	42.38								
-1	976.72 551.84	156 197	. 60 2 . 52	35.85 -38.48		13.44		-						
	Tae	718	Lsb	Hab	Lic	Mic	Lh	d(Lh)		d(m)	Fa	d(Pa)	fy	4(Fy)
ì	2.276	-1.001 401	1269.	-765. -1459.	693. 2749.	-1446. -2246.	3140.	1368. -1229.	-669. -1076.	-334. -491.	-18. -34.	ī;;	! !:	10. -6.
3	115 2,200	.344 -1.208	. 8937. 48.	-3110. -1046.	7852. -828	-185.	9409. 134.	-306. 235.	-1435. -1365.	-181. -478.	-152. 24.	-3. 34.	43. 35.	12. 16.
5 .	1.144	-1.841	-3464. -10185.	1669.	-374A. -10848.	2398. 3871.	-3340. -4885.	1094. -1452.	1347. -1765.	1418.	29. 157.	-92. 34.	11. 27.	5. 9.
,	1:23	-1.364	-892. 103.	-610. -2760.	-806. -1533.	-173. -2912.	-929. 832.	-733 -733 716:	-670. -2862.	246. 346.	ş.		-3.	-28.
•	4.219 2.249 1.693 .708	-3.637	19.	-6472.	-4173.	-6850.	1866.	546.	-6677.	500.	1.	-15. -26.	160.	٠.
10 11	2.670 3.450	58k .788	1227.	773. 5274.	1309. 3541.	724. 3396.	-716. 109.	-564. 744.	791. 6011.	945.	-74.	-34.	-56. -94.	-30. 13.
810	M							184		737.		25.		15.
HUR	HOMENT	BERLVAT	IVES DUE	TO CYCLE	C AMPLES	(3P \$18	COMPONE	ert)						
MIN	1:4(0)	BOM2 : 4	(T1C)	ROW314(T2	\$)									
4	(Lh)	4(14)	•)	d(Fz)	40	Fy)								
M	950.30 893.64	7642	. 47	-95.43	-1	67.16 50.38								
-20	16.4	-2231 1746	. 26	37.32 24.45		11.00						•		
	TIE	T18	Lab	Mah	Lie	Mic	Lh	4(IA)	PRIS.	4(10)	Fm	4(*=)	Fy	d(Fy)
· 2	2.278	-1.001 401 .344	2420. 4865.	1836. 2388.	2121. 5251.	-392. 1620.	2567. 6690.	613. 2199. -#36.	2817. 2725.	2188. -1417. -636.	-89. -31.	-\$2. 28. 11.	12. -16. -147.	17. 59. 15.
3	115 2.200	.344 -1.208	4358. 2312.	8987. 1332.	\$254. 8023. 3015.	4971. 1228.	2740. 2001.	-#36. -313.	7871. 2659.	-636. 1866.	-81. -142.	11. -60.	-147. -28.	15. -22.
ì	3.388	-1.841 -2.775	621. -229.	-3169. -7988.	-182. -5889.	-3804. -7292.	1071. 1926.	-266. 285.	-2858. -8163.	32b. -1475	-26. 26.	-12. 30.	41. 195.	-20. 60.
Ť	2.249	-1.36%	2789.	-1252.	3095.	-1729.	2452	119.	-1041.	-1247.	-19.	**	-12.	-12. -00.
	1.693 .708 2.678	-2.007 -3.037 504	4457. 8997.	-494. -1248.	5760. 10880.	-2285. -5170.	3886. 9602.	-1000. -19.	411. 442.	116.	-75. -154.	-1.	-52. -35.	-1.
10	3.450	.780	-141. -4764.	217.	355. -1658.	727. 3677.	-359. -4468.	-367. -418.	1931.	-193. 621.	20.	24.	-20. -12.	-10. -19.
\$100	•							.825.		1197.		39.		32.
HAM	-	HIPOHENT I	ia .	1648	MONENTS			-	AR FORCES					
•	TIC	T15	MC	LIE	20+C	Lec	YZE	MC	Tet	int				
1	2.274 1.249	-1.091 401 .344	-1600. -2883.	2155. 2937.	939. 1867.	-662. 200.	56. 21.	-25.	-33. -10.	-11. -0.			-	
į	115 1.100	-1.188	-1088. -1683.	8616. 1447.	652. 318.	769. -1013.	62. 69.	-149. -1.	-10. -19. -34.	-3. 26.				
ì	3.302	-1.841 -2.775	138. -1858.	-3899. -9015.	1200.	-141. -662.	i .	35. 176.	ii.	-10.				
Ž	2.249	-1.364	-1661.	-985.	991.	54.	8.	-5.	-11.	9.				
	1.693	-2.007 -3.437	-3271. -8239.	631. 1154.	1362.	201. 712.	71. 181.	-29. -17.	• ;	13. 14.		•		
10 11	2.670	584 .788	577. 5283.	-347. 1059.	217. 815.	-356. -871.	-34. -71.	-11. -43.	-18. -13.	-51.				

Table I. (Continued)

1408 11047 41	# 50,1 pichent 1;d(0) (Lh) 515,85 77.05 137.08 T10 3,297 2,675 1,162	DERIVAT NGM2:- 4(19) 10477 -1846 1351 718 -2,088 -1,572 -3582	* 46,3 IVES DUE ((TIC) :	MU + 1 TO CYCL! MOWS:4(T1 4(F2) -95.95 8.00 -61.25 Mub 1744. 4594. 6594. 6995. 2925.	C AMRLE S) d	- 3,90 S (MRAN ((Fy) 285.85 27.57 -21.49 Mtc 2360. 3505. 3576. 2317. 2349.	-2159. -525. -526. -526. -1112. -1127.	4(14)	16h 1571. 5062. 7652. 1867.	-290. 1009. -210. -210.	Fa 2534 19. 13. 45.	4(Fm) 4. -24. 13. 2.	Py -152, -163, -235, -140,	,
10 11 12 13 13		-1.032 -2.033 -4.198 -1.984 -1.215 .073	-1054. -3335. -795. -1735. -5169. -251. 1604. 3758.	-585. -2130. 1515. 2210. 2703. 1920. 1619. 1567.	#48. -1588. 2541. 2348. -1267. 3635. 5987. #884.	734. -85. 2216. 3522. 4896. 2109. 1313. -288.	-2667. -6111. -2273. -3533. -6834. -1963. -401. 1849.	-255. -584. -584. -32. -100. -302.	1887. -878. -3030. 1205. 1653. 1865. 1955. 1753. 2364.	87. 32. 51. -645. -143. 281. -217. -110. 330. beg.	15. 12. 28. 52. 8. 12.	13. -1. 12. 0. -2. -6. 1. -12.	-120. -71. -71. -134. -163. -157. -159. -100. -173.	
NOV!	1:4(0)	97M2:	(T1C)	ROW3:4(T1	8)									
91 -11	(Lb) 171.96 130.57 166.88	4(74 -326; 89(91)		4(Fx) -125.98 17.42 -14.97		(fy) 79.45 -23.84 -19.99								
	TIC	TIS	Lab	Meh	Lic	Mic	Lh	d(Un)	m	d(m)	FE	4(Fz)	**	•
1 3 6 7 8 10 11 12 13	3.297 2.478 1.162 3.469 4.716 5.641 3.291 1.734 1.831 3.882 4.739	-2.088 -1.572501 -3.010 -2.126 -2.126 -3.209 -2.032 -2.032 -2.032 -1.030 -1.030 -1.730	2190. 6120. 5020. 5360. 3131. 624. 3773. 5576. 6907. 3723. 2912.	-5805. -4946. -3574. -015. -4549. -1455. -1759. -3505. -8007. -3169. -03.	238. 2784. 5129. 5027. 1126. 1408. -209. 4320. 5815. 1758. 3023. 4115.	-5933. -6478. -5269. -2765. -1652. -1247. -1416. -7164. -5639. -6366. -603.	3050. 4854. 7361. 5515. 2802. 3448. 991. 3530. 6348. 6337. 4387. 2861.	-1215. -685. -10. 1232. -231. 1270. -555. -758. 147. -731. 340.	-5745. -4268. -2704. -1365. -1367. -1387. -1371. -4546. -254.	-2989. -1246. -2462. -294. 151. 3849. 1786. -1862. -1204. -273.	-5. -61. -76. -15. -20. -71. -55. -29. -49.	32. -2. 9. -36. -6. 9. -19. -11. -8.	78. 69. 68. 16. 29. 33. -22. 70. 136. 79. -4.	
\$140 MM	•	BFRIVAT		TO CYCL!	C AMPLE	\$ (10 eu		,849, :#7)		1745.		19.		
	1:4(0)			mas:d(T)		· (27 8)	CONFORE	-						
-	(Lh)	4(10		d(Fx)	_	(Fy)								
-21 -31	161.68 147.45 199.91	-2881 -2881 2331	. 24 1. 85 1. 65	-4.76 21.77 26.33	-1	105.70 59.52 -35.73								
•	TIC	718	Lab	Hab	Lie	Mlc	LM -1503.	d(Uh) -3514.	FM -7730;	4(M) 2330,	Fa 36.	4(Fz) 22.	Py 115.	•
1 7 3 6 7 0 10 11 12	3.297 2.675 1.162 3.365 4.728 5.662 3.292 1.751 3.216 3.002 4.739	-2.000 -1.572 562 -1.011 -3.689 -2.126 -9.290 -2.032 -2.032 -4.100 -1.100 -1.215 .073	147. 963. 2713. 3769. 6872. -816.	-73413529360996021357013570135701169211619116321086243926101.	-3838. -5488. -7249. -2264.	-6447. -5224. -586. -10173. -13822. -13884. -18405. -10630. -11891. -14194. -9844. -6352. -6800.	-1046. -419. 2495. 4325. 2577. 4581. 4678. 5050.	-2015. 591. 1330. -1631. 945. 175. 3005. 1814. -398. -1307.	-5661. -619. -9344. -13418. -17978. -11064. -10498. -11304.	7130, 7608, -647, 129, 645, -254, -254, -257, -1577, -166, -1024, 200, -218,	36. 12. 1. -23. -16. -7. 66. 34. -11. -102. 67.	4. -4. -42. 19. -52. 19. 7. -78. 26. 32.	113. 67. -17. 162. 204. 224. 328. 197. 189. 190. 191.	•
\$100		PAPONENTS			CHENTS			,1547.	LR FORCE:	1340.		26.		
: ,	Tic	T18	Hit	LZE .	Mec	L+C	416	are	TAE	, Inc		•		
1. 2. 3. 6. 7. 8. 10. 11. 12. 13.	3.297 2.473 1.162 3.308 3.459 4.716 5.001 3.291 2.734 1.051 3.216 3.802 6,739	-2.080 -1.572 502 -1.011 -3.680 -2.126 -3.280 -2.032 -3.820 -4.100 -1.924 -1.925 -1.935	-2121. -1811. -1839. -1839. -4345. -1972. -3202. -1869. -4310. -7542. -2489. -479. 1821.	-2340. 596. 3471. -1915. -3252. -8494. -4167. -2572. -2350. -3112. -3112.	-3624. -2637. -1562. -1056. -20. 605. 1299. 1240. -781. -1606. -21886.	3300. 1257. 1000. 7130. 8151. 8132. 9481. 7973. 6073.	21. 24. 33. 10. 32. 18. -5. -20. 41. 116. 19.	55. 52. 53. 96. 108. 176. 63. 67. 78.	57. 34. 34. -3. 18. 11. 59. 4. 50. 14. 60. 28.	-60. -60. -55. -110. -118. -154. -174. -174. -174. -174. -174. -174. -174. -174. -174.				

Table I. (Continued)

		_							••						
		iT 4 1 + 60,:		YMO HODE), 60 P	- 1.56								
		mark HT Lid(8)	-		TO CYC! POW3:4(T)	-	S (wear	CONNOVEN	7)					•	
		(Lb)	4(4	-	4(fx)		(Fy)								
	_														
	10	130.25 611.63 611.11	2761 -1817 667	2.63 9.21	-12.51 -11.17 -125.50	,	315,43 65,17 -36,62								
		716	718	Lab	Rab	1 %	Ple	Lh	40 h)	-	4(m)	fa	4(7=)	Fy	4(Fy.
	1		- 7:5	2173.	451.			1057.	-1263.	-115.	-355.	108.	15.	-101.	
	1	2,062 1,511 .611	717	1315. 1315.	11931.	1703. 1670. 1671.	3548. 12154. 16674.	3373.	278. -741.	10543. 14154.	1114.	#:	-17. 32.	-202. -216. -296.	
	ì	2.201 3.215 1.466	-1:50	-11/1.	23184. -3636. -17882.	13064. -139.		268]. -1769. -6688.	1360.	22162. -1621. -28139.	-118. +34. -1856.	26. 165. 265.	-10.	-15. -15.	17
	į	1.466	-1.127	1187.	2827.	1401.	578. -11146. 5511. 5632.	-54. -8581.	-215. -868. 837.	1777	561. -115.	106. 179. 331.	-10.	-113. -110. -137.	-54
•	10	1.44	31,139	-18786. 3451.	3174. 6477. 1531.	-15267. 6133. 11386.	1284.	1001.	837. 1177.	1717. -458. 225. 5672.	561. -115. 162. 168.	54.	-10.	-123.	16.
	11	2.101	123	19698. 25690.			-1335. -1335. -1375.			3445.	-109t, -124.	-163.	-25	-102. -76.	11.
	33 ·		1.502	34015.	1780.	35530.	-4975.	33326,	fa10.	1610.	fell. 1051.	-267.	-29.	-61.	-4, 12.
			DEBIVAT	VES DES	TO CYCLI	C AMBLE:	5 (10 m	-			1431.		47.		***
		1:4(8)			40W3 td (1)		,, .,								
	4	(Lb)	4(10	h)	4(#=)	4	(Fy)								
	-70	02[.+6 04].+5	-555	1.23	284.10 -175.31										
	7	711.34	183 -373	1.34	40.05	- 1	17;7								
	-	TIC	T18	1:0	Mab	L No	4 1g	Lh	d(Lh)	100	4(14)	Fa	4(F#)	Fy	d(Fy)
	1	1.511	-:515	5805. -1390. -4370. -9723. 7137.	\$65. 196.	3186. -3626.	-2236. 923.	4480. -484.	-295.	1765. -125.	-134. 354.	-112.	11. 6.	-127 171	18:
	3	1.911 .672 .217 2.203 3.219 1.865 1.645 .967 1.599 2.101	-,717 -,642 -,257 -1,587 -1,127 -1,828 -2,819 -,947 -,162 ,988	-\$370. -\$725.	-1549.	-8650. -10367. 10101. 35073. 6981. 9234.	2150. 5202. -2653. -2751.	-2511. -5517. 5666.	284. -188. -657.	-124. -1332. -4742.	747. -786.	194.	-16. 58. -43.	171. 341.	-48.
	•	3.215	-1:30	7137. 17786.	2732. 5254.	16101. 35073.	-2653. -2791.		-11.	-6787. 8697. 8859.	-171.	-324	60.	-111:	- 65.
•	Í	1:43	-1:14	6104. 6855. 1488.	2334. 6301.	35073. 6981. 9236. 7069. 2689.	• 55. • 35. • 313.	2017, 2017, 2021, -972, 1049,	-30. 871. -189. -398.	2352. 3409. 7130.	-903.	-12: -17: -51:	-16.	-115. -175. -223.	5. 40. 75.
	11	1.599	947 142	1551.	166. -1683.	2644. 5330.	-615. -5501.	10+9. 3625,	-11.	501.	5. -618. 1173.	-31. -123.	-42. 7. -57.	-:5:	-15: -75:
	12 13	3.234	.585 2.582	5418. 6028.	-7302. -7540.	\$75. 3282.	-5301. -5301. -12240. -13384.	7372. 8386.	357. -204.	-5171. -4960.	-1127. 285.	-138. -136.	-10.	178. 142.	78. 16.
	\$16	**							408.		647.		35.		44.
	HUS	H014 17	PER I VAT	YES DUE	TO CYCL!	C ANGLES	(3P \$11	COMPONI	prt)						
		1:4(8)			OW3:4(11	\$)									
		(Lh)	4(10		d(Fg)		Fy)								
	-1	11. 12 12. A 16. 7	-5500 1150 650		-143.63 -13.00 -147.25	:	54.42 57.84 24.24								
	,	735	718 - 505	\sb -15∮0,	***b 2583.	tle sås	#16 41 5 5.	16 3445-	4(Lh) -1882.	•	4(%) -631.	F2 64.	4(F±)	Fy -78.	4(Fy) -5.
	į	2.062 1.311	-: 71 7 -: 44 7 -: 25 7	1234.	-2583. -1065	361. -16. 563.	-2285. -5356. -6513.	-2665. 1419. 2956.	630. _ 277.	1871. -2713. -1760.	-2251.	12.	-32.	53. 64.	14
	;	.822 .217 2.201	-1.507	2148. -2342. -5773.	-6263.	-2661. -1737.	-8113. 6436. 13162.	. 1166	231. 176. 618.	-1760. -5051. 3512.	***	-116. -196. 81.		185. -32.	-1. 30. -16.
	•	2.201 3.215 1.866	-1.507 -1.305 -1.117	-1773. -1846.	8935. 2901.	-1301.	1963.	-6266, -1821, -5155,	616. -857. 196.	5418. 2356.	-1076. 606.	237.	1	-47.	52. 23.
	į	::11	-1:11	-1114. -1111. -1011.	1751. 253.	-5828. -18731. -18.	4561. 5533. -245.		136. 474. 372.	\$10. -2976.	801. 301. 1145.	111.	-65.	73. 290.	-33. -58.
:		2.101	-: 1::	2384.	111. 2731. 3476.	1101 1101 11001	1662.	745.	-1782. 1503.	266. 3256. 7285.	-316. 33. 41.	-14. -67. -338.	-11. 68. -67.	-115	32: -4:
	ij	3. 254	- 1.502	14358.	5485.	286cs.	-3153.	. 7522.	-33.	7205. 9881.	820.	-363.	-29.	-623.	-64
	BI GH		MPONENTS			ARTHUM S			110.	AR PORCE			41.		u.
		Tic Co	TLS	MIC	Lic	mc.	LeC	ATC	I4C	T4E	146				
	1	2.062	[1]	2120:	3135.	-325.	176h.	-14. 39. 144. 225.	-Fs.	-31.	-17.				
	ì	1.311 .022 .227	717 462 257	-177. -1274.	-1554. -2121. -5304.	847. 602. -306.	1154. -560.	144.	81. 85. 240.	#					
	i	2.20	-1.507	-2274. -4427. 3197.	3768.	1102.	-013. 276. 2370.		-124. -185.	-#: -#:	-134.				
	•		+1.177	7571. 2077. 3301.	2616. 1716.	256.	220. 1206.	-664. -61. -144.	-25. -12.	-34. -31.	-27. -85.				
1	ł	1.33	1.11	6712.	-1524. 130.	624. 660.	552. 350.	-166. -217. -16,	120. -19.	-6. -38.	-170. -11.				
į	3	2.101 2.061 3.134	-: 1	-610f.	3440. 2268. 5134.	373. 2288. 1281.	184. 84. -748.	258. 258.	-151. -325. -628.	-47.	-2. 127. 195.			_	
1		5. 279	7. 245	-6301.	7134,		-,	.,.		-111.	473.				

Table I. (Continued)

1939	HOMENT	DERIVAT	IAEZ UNI	TO CYCL!	C ANGLE	E (MEAN I	COMPONENT	7)						
	1:4(0)			991314(T)										
4	(LN)	4(19	h)	4(Fx)	4	(Fy)								
	821.92 716.54 888.59	1790 -374 234	9.77	-37.07 3.34 -52.36	,	179.49 47.78 -10.29	-							
ė	TIC	T18	Løb	Msb	Lle	Me	Lh	4(Us)	-	d(IM)	FR	d(Fz)	Py	4(Fy)
1 2 3 4 7 8 9 10 11	2.425 1.608 1.222 .521 1.675 2.489 3.272 1.679 1.269 .517	-,862 -,613 -,637 ,838 -1,849 -2,916 -1,540 -2,545 -3,539 -1,602	\$287. \$528. \$519. 10159. -211. -1987. -4268. 1170. -2014. -6903. 1983.	8822. 12277. 18019. 6362. 2939. -778. 6661. 73627. 7910.	8986. 10589. 15794. 3250. 489. -3128. 4371. 690. -2962. 5099.	6426. 8521. 10779. 16458. 7669. 5385. 2613. 8619. 9712. 12564.	3017. 4001. 4721. 7664. -1736. -3077. -4768. -241. -8356. -8635.	-185. 329. -P28. -70. -886. -312. -65. 62. 290.	\$257. 2049. 11089. 18680. 5782. 1859. -2277. 5765. 6292. 6895. 7591.	-88, 158, -848, 138, -344, -103, -476, 109, 961,	16. -12. -20. -62. 52. 98. 136. 79. 95. 157. 20.	1. -13. 22. 7. -12. 4. 9. 27. -6. 7.	-108. -138. -187. -225. -138. -99. -16. -128. -158. -125.	-3. -2. 8. -14. -17. -13. -2. -5. 2.
13	2.233	721	6777. 9041.	6937. 6409.	7045. 10999.	6883. 5286.	3775. 8172.	227. 1051.	6954. 6909.	10.	-2.	~10. ~16.	-91. -78.	25.
14 81 (2)	3,482 ***	.665	10384.	4911.	12396.	3783.	9538.	-376. -316	5495.	-492. 673.	-45.	15.	-77.	-3. 11.
	• •	DERIVATI	VES DUE	TO CYCLI	C ANGLES	(3P ča	S COMPONE			L/1.	• •			
40V)	114(0)	ROV2 : 6	(71E)	ROW3 : d(T)	\$)									
	LA)	4(10)		d(Fz)		Fy)				•				
-52	51.06 06.71 39.58	-5821 3621 4310	.42	-326.43 95.97 -83.38	-	37.82 72.15 56.31								
•	Tie	T15	Lsb	Mab	Lici	M1c.	Lh	d(Lh)	*	4(14)	P2	4(Fx)	fy	4(Fy)
1 2 3 4 5 6 7 8 9 10 11 12	2.425 1.008 1.222 .521 1.875 2.486 3.272 1.879 1.269 .517 1.768 2.233	-1.59n -2.565 -3.539 -1.602 721	1688. 5692. 10531. 19019. 927. -b298. -11663. 1969. -3742. -3116. 1232. 1218.	-5109. -12824. -19285. -6888. -1723.	-1242. -7445. -12468. -94. -8648. -10853. -803. 2088.	-6253. -11346. -18892. -7172. -2215.	1690. 6138. 11987. 19670. -2909. -2909. -10793. 2848. -1650. 2157. 1698.	-185. -66. -1854.	-333. -1933. -1953. -8312. -8312. -13467. -1757.	343. 845. -671. 1862. -1631. 433. 1281. -1256. -214. -427. -661.	-57. -129. -296. -331. -51. 127. 221. -46. 59. -11.	-13. -17. 0. -1. -55. 20. -9. -32. 52. -2. 12.	8. 78. 69. 126. 67. 82. 190. 82.	-10. -1. 27. -6. -15. -6. -10. 5. 10. -18.
13 14	2.973 3.402	.665	3838. 4211.	4482, 825A.	5015. 7247.	2996. 7510.	2876. 2871.	-77. -500.	5134. 8571.	-798,	-59. -30.	-14. 26.	-87. -121.	26.
\$ 1 CM	IA							1134		124	-	M.		10.
				TO CYCLI		(3P SII	COMPOSE	MT) _						•
	l:d(0) (Lh)	401214		RDH3:d(T1 d(Fx)		Fy)								
81	76.19	17330	3.14	-148.67	-1	10.44								
-39	149.25 173.73	-5364	. 12	67.22 61.67	-	83.16 73.83								
	TIC	T18	Lab	Mab	Lle	Mic	Lh	4(Lh)	m	4(19)	Fx	4(Fx)	fy	d(fy)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	2.625 1.808 1.222 .521 1.875 2.688 3.272 1.879 1.269 1.768 2.233 2.973 3.682	842 637 638 -1.889 -2.344 -1.590 -2.545 -1.592 -7.582 -7.721	2200. 3807. 7423. 6034. 6340. 5013. 12101. 17742. 2525. -4030.	17758. -521. -7261. -13915. -675. -5708. -5324. -75.	2929.) -2544. 6096. 11009.	-712. 2685. 18162. -3361. -10678. -17057. -2505. -10596. -13508. -245. 5672.	2571.	-467. 315. -493. -254. 740. -788.	-100. 5025. 10621. 1858. -731. -1818. -12522. -1512. -1717. 1152. 1618. 1162.	-819. 165. 9. 1027. 1662. 789. 882. 79. -2582. -258. -557. -676. -097.	-11. -47. -172. -63. -11b. -129. -173. -195. -477. -112. -49. 78. 331.	19. -18. -18. 12. 12. -13. -27. 38. 15. -5. -16. 15.	12. -134. -289. -3. 139. 234. -3. 44. 33. -7. 13. -81.	2. 7. 22. -9. -32. 19. 8. -16. -11. -11. -12. 35. -26.
		MPONENT I		-				651.		997. -		19.		18.
•	TIC CO	718	M2e	LZC	MONENTS M-C	L+C	317	RIC SHE	AR FORCE	INC .				
1 2 7 6 5 6 7 8 9 10 11 12	2.425	842 613 M(6J=163 -838 -1.809 -2.340 -2.914 -1.598 -2.545	-1178.	695. 5581. 1239	998. 1069.	995. 556.	6.	-13.	-4.	-24.	-	:		

Table I. (Continued)

1 2 3 5 5 7 6 7 10 11 12 13 14 15 16	•	19 11 12 13 19 19 15	1 2 3 4 5 6 7				10 11 12 13 14 75 16	1 2 3 4 5 6 7				\$			i			1
TIC		2.633 1.757 1.383 .613 2.517 3.008 3.768 4.077	710 1.623 1.763 1.126 2.678 2.678 3.633	1006.26 267.32 1546.23	/1:d(0) (Lh)	1004641	1.056 1.383 .013 2.529 3.000 3.763 6.076	2.673 1.1643 1.124 2.276 2.676 3.433 4.262	191.19 191.59 1546.11	f(Lh) 1801.16	1 14(0) 12:4(0)	1014	7 6.20 8 2.63 9 1.93 6 1.53 1 .43 2 2.53 3 8.00 6 3.76	H T16 1 2.6: 2 1.9: 3 1.1: 4 .2: 5 2.6: 6 3.6:	4(Lh) 5691.2; 29.6; 3090.6;	US MORTE DALLIGO		स्का ६
728 -1.4% -1.52% -1.85% -2.187 -2.853 -2.187 -2.853 -2.187 -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95% -3.95%		-9, 687 -1, 461 -3, 076 -6, 051 -1, 053 -1, 270 -, 583 -1, 017	718 -1. 776 -1. 527 007 -2. 107 -2. 107	1071 -317 256	40HZ:		-3.076 -4.051	-1.536 -1.525 035 035 -2.187	253 167 718	4(** -175			12 -3.61 13 -1.81 19 -3.61 13 -6.61 13 -5.64 19 -1.94 10 -1.21	13 -1.9° 13 -1.9° 100° 760°	1 167			LOCKES
ALC -3111. -3671. -2671. -2611. -413. -3010. -3710. -3710.		8539. 6505. 11179. 16219. 1786. 755. 4160. -400.	1030.				-2635. -460. 376. 1180. 3100. -175. 1313. -121. -1213.	1463. 6407. 8208. 12471. 930.	1.51 6.26 Lah				17 -366) 11 1 76 -346(11 -527) 18 -746) 15 31 73 296(15 651)	16 121 14 3061 14 6161	(Mh) 731,19 168,86 510,48	171 723 (# 1:4(7 <u>1</u> 0)	m - 52	CT NO 1481
-1586. 3391. 11797. -2516. -5788. -5788. -6788. -1911. -786. -2017. -2017.		-6011. -607. -6470. -577. -3316.	-7971 -1716:	-35,57 20,44 46,05	=0W3:d(T) d(Fx)	TO CYCL!	3528. 517. -2793. -5293. -7271. 1681. 2852. 4610. 8613.	1554, -771, -1703, -5287, 1074, 1676, 5524,	-24,41 -24,41	4(Pm) -187,67	TÓ CYP I 17)b:ENDI		31000 3. 3793 5. 6816 7. 7020 1. 3919 1. 6121 1. 2010	. 6355 7. 7845 1. 9837 1. 13564 1. 6274	4(Fs) -58, 11. -37.	TH CYC		×
Modeletts &Pft. 2740. 2740. 2740. 2740. 3605. 3673. 8724. 4767. 4770. 5317. 2207. 4230.			Lie 598 ⁴ , 3 ⁴ 71, 5426, 5677, 6766, 6711,	· -1			-072, -076, -1958, -711, 682, 2127, 1654, 1518, 1518,	16hb. 515m. 7390. 19512. 968. -2572.	L'e	,			-2519 2141 -241 -1966 -4361 1934 5159	. 2551 6274 . 8367 . 12521	37	-	1,11	
L+C 2567, 3450, 2652, 1552, 3525, 2851, 2872, 1872, 1874, 1872, 2871, 1672, 1672, 1672, 1672,		-4142. -7138. -11848. -11833. -6538. -3711. -2830. -3756.	-7742. -2757. 1111. -4055. -11610. -15617. -4142.	165.80 66.72 -67.77	(Fy)	(3P \$11	985. -2587. -5202. -9680. 1795. 2676. 6772. 8822. 11745.	583. -2681. -6363. -8196. 626. 2686. 5573.	-46.24 -18.75 	(Fy) 83.93 46.24	S (3P cor	•	1851 1. 5400 2. 6757 3. 6750 11106 3461 3132 3262 2370	. 5892 . 7857 . 9394 . 12311	4(Py) -189,79 29,75 -4,40	HAPM) 23.	P = 3,41	
Y2C 35. 50. 50. 50. 27. 50. 27. 27. 50. -0. -0. -0.	•	7814. 12504. 15385. 18725. 7112. 6861.	**************************************			и сомрож	-8872. -787. -787. -777. -661. -753. -517. -735. -6716.	1307. 6957. 8603. 13150. 453. -2672.	Lh		COMPONE		-0165 -902 -0313 -0759 -0521 -808 1911 0094	-995 2452 2305 6145 -1018		COMPOSE	. :	
### ##################################		-1875. 467. 1103. 372. -211. 1678. 112. -615. 930. 18%.	4(' h) 522555. 31115065231825.	-			-170*. -783. -181. -1611. 600. 873. -727.	670. 2600. -104. -375. 709. 1092. -023.	d(1h)		(NT)	512	. 796 -522 -555 -56 -516 -516 -512 -512	-512 636 -671 761 -79		NT)		, .
Fac -881191929393939393939393		-5210. -6621. -6120. -2315. -3776. -3052. -3677. -1852. -621.	-4411. -355. 3668. 10427. -6125. -9155.				-2177 -2177 -5311 -5085 1525 3007 -6569 8515 11437	1645. 127. -645. -1162. 1271. 1260. 2616.	_			•	-2247 3847 3958 5458 6347 3237 3679 3132 3714	. 3875 . 7947 . 18025 . 16117 . 3668				
##C -56. -58. -57. -57. -57. -55. -55. -56. -56. -15. -17.		110. -723. 462. 1056. -776. -403. -637. 507. 1757.	4("h) -12#2678686. 13072723109.			•	-741. -637. 8. 252. 753. -104. -1760. 460. 623.	673. -85. -30. 102. 667. -208.	d(M)			673.	687. -1165. -516. 792. 518. -1236. -561. 71. -186.	1755. -118. 391. -165.				
		-95. -126. -210. -260. -77. -24. 23. 43. 102.	Fa -76. -67. -63. -69. -91. -76.				18. 17. 3. -16. -6. -16. 16.	-71. -78. -103. -173. -18. 40.	Fx				116. 67. 78. 91. 191. 62. 69.	81. -2. -18. -50. 81.		•		
	••	-8. 15. -16. 2. 0. 12. 12. -7.	#(FE) 1. 362. 68.				29. 26. 9. 11. 16. 16. -5.	-20. -23. 0. -20. -15. -11.	d(Fa)	•		13.	-6. 22. -17. -5. 17. 17. -1. -10.	-27. -5. 3.				
		76. 172. 107. 120. 105. 64. 45. 37.	Fy 101. 39. -40. -167. 29. 153.				-3. 55. 70. 152. -20. -33. -63. -101. -186.	-7, 50, 36, 62, 0, 3,	fý				-66. -66. -113. -135. -163. -76. -94.	-03. -129. -168. -178. -91. -78.				
		6. 23. -14. -7. 34. -15. -2. -1.	d(Fy) 25. 16. 938. 016.			•	1. 7. -3. -5. -15. 19. 10. -21.	31. 31. 31. 37.	d(Fy)			<u>1</u> 0.	-5. 13. -12. 26. 2. -2. -2.	-8. -14. 5. 5.				

Table I. (Continued)

Tes	1 1 1	roczed e	780 MDOE											
VET	· 69.2	13 RPM	- 137.+	MU - (), 69 P	• 1,44								
HUS	HOMENT	DERIVAT	IVES DUE	TO CYPL	C ANGLE	S (MEAN	COMPREENT	ra						
	1:4(0)	MON'S L	d(71C)	ROM3:4(T)	4)							-		
4	(Lb)	dO	h)	d(Fa)	4	(Fy)								
3	273.38 844.88 143.94	2940 -914 545	6.32 7.56 1.54	-15.77 -26.64 -116.27	-	114.88 149.09 110.77								
	TIE	718	Lsb	Mah	Lic	Me	Lh	d(Lh)	100	4(Ph)	Fz	4(\$x)	**	4(Fy)
1	1.069	- 970	2856.	18163	10299.	14401	-121	2291	14879.	1330.	19.	-55.	-298.	19.
į	.591	576 340	4374. 4942.	27298	16714.	27469. 27657.	-1155. -1044.	35. 58.	22202. 28771.	2762. 211.	30.	-11. 5.	-502. -551.	-39. 12.
•	1.252	-1.307	-1071.	13672. 8754.	13290. 5072.	15874. 11098.	-3777.	2572. 125.	12781. 7716.	155. -11.	89. 94. 59.	30. -9.	-322. -216.	16. 6.
;	1.478 1.964 .971	-1.272 -1.194 -1.863	575. -1262. -7270.	5454 14574	1810. 7167. -785.	6935. 16107.	-1349. -5108.	813. -500. 192.	13823.	1688. 559. -1389.	41	-27. -40.	-175. -349.	-11.
	.725 .701 1,106	-2:617 -: 646	-15447. 715.	12412. 10427. 13454.	-1165. 9793.	18818.	-10123. -18337. -3286.	-1998 -1352	10746. 7443. 21633.	-510. -2038.	187. 316. 378.	33. 84.	-259. -263. -363.	41. -48.
ij	1.462	-: 374	1028. 15588.	13061	17282. 26107.	12722	3945. 18943.	-1753. -1765.	13202.	-847. -829.	-11. -137.	17. 12.	-370. -421.	-11. -16.
816					•			1354.		1145.		33.		20.
MUS	HOMENT	MERIVAT	IVES OUE	-	C AMPLE	\$ (3P co	S COMPON				-	•		
	1:4(0)			ROW3 : 4(T)										
	(LN)	4(14		d(Fz)	-	(Fy)								
ı	860.61 418.70 114.53	-7891 2481 -4931	2.43	300.30 -236.33 31.00		110.70 120.97 125.85								
	TEC	T18	Lab	Mab	LIC	Mle	Lh	d(Lh)	Mh	4(m)	Fx	d(fz)	Fy	d(Fy)
1 2	1.069 .591	\$79 \$76	-2587. -8867.	1307.	-2067. -15432.	2929. 5390.	-2699. -5969.	-589. -836.	591. -4319.	1008. -724.	65. 279.	-10.	-10. 263.	-72. 12.
;	1.257	340 816	-12224. -3024.	-2537 2514	-23884. -2909.	5974. 6897. 118.	-7078. -3073.	1313. -2156.	-6286. 1462.	-362. 2226.	340. 95.	39. -18. 29.	***	-\$\$. -\$\$.
	1.478	-1.307 -1.272	1599. 6350.	306.	3428. 10156.	-1571	793. 4669.	315. 1057.	677.	-1541.	-14.	-11	-73. -152.	37. 54.
7	.971	-1.194	-3058. -3000.	1749. 372. 6420.	-42A4. 343.	2567. 9051.	-2551. -0071.	211. -52.	3214. -595. 5257.	2163.	-133. 88. 195.	-16. -33. -52.	-13b.	-65.
10	.701 1.105	-2.647 533	-2015. -2929.	8180.	3517. -6223.	13118.	-6651. -2663.	214. -583.	5999. -1035.	-1000. -265.	192. 137.	64. 39.	-211.	-17:
11	1.442	176	1612.	-3722. -6862.	-1131. -3802.	-3313. -7805.	1818.	1314. -208.	-3900. -8412.	-541. 43.	16. -30,	-11. 29.	174.	-20.
\$1 4	~ _							950.		.1153.		. 35		43
				TO CYCLI		(3P \$11	COMPONE	MT)						
	1:d(0) (Lh)	ROW2 14		10W3 : 4(T) 4(Fz)		(Fp)								
	E78.45	-9815	. 77	-217.62	•	62.52								
-1	369.28 365.64	767	7.98	13.00 -200,39	-	17,03 138,36 .								
	710	T18	Lab	Mak	Lle	Mic	Lh	d(lh)	-	4(10)	Fz	4(FE)	Fy	4(Fy)
1	1.049	978 576 360	-822. 1223.	-3546. -7607.	-6719. -6268.	-1957. -9529.	196. 3633. 6936.	169. 395.	-6244. -6755.	-571. -309.	-77.	39. -13.	156. 219.	-2. 10. -28.
•	. 080 1. 252	616 -1.307	1961. -1892. -1880.	-11433. -2050. -900.	-7047.	-16390, 68,	381.	395. -47. -770. -257.	-9529. -6165.	30. -1778. -86.	-190. 117.	117.	272. 206.	109.
į	1.478	-1.272	-1570. -1570.	2563. -2859.	-2507. -1777. -3667.	121. 4863. -3237.	-1803. -1478. 1845.	482. 1901.	-1349. 1548. -2678.	-339. 1790.	\$1. 92. -15.	-67. -30. -79.	25. 8. 153.	-87. 7. -54.
Í	.725 .701	-1.443	-8372. -11080.	-2223.	-17003. -23074.	235n. 51k3.	-4563. -5788.	-1970. 276.	-5101. -7064.	1464	297. 339.	20.	345. 480.	-3. 11.
10	1.106 1.662 2.009	-: 8 8 E	-412.	-4712, -1369.	-\$875. 7011.	-2394.	1664. 3114.	599. -501.	-5734. 51.	-2377. 579.	93.	15.	209.	71.
11		.719	9062.	1776.	15122.	-1634	6386.	-276.	6971.	1278.	-296.	-19.	-242.	25.
···								882.	_	1202.		30.		34,
		HPONERTS			STREMON				A FORCES					
H 1	T1C 1.069	715 -,979	M2C -152.	-3472.	200 .	L+C 772.	72E -61.	##C 110,	746 23.	746 -45.				
į	.591	576 368	-3976.	-6362 -0304 -3609	-363.	393.	170. 328. -61. -57.	244.	93. 138.	25. 54. -55.				
•	1.252	-1.307	-5610. 541. 1140.	-278	-676. 922. -463.	1226. 536. 1071.	-61. -57.	306. 151. 5.	58. -16.	-24.				
,	1.946	-1.172	2346. -1220.	3100.	455	1560.	-122. 31.	-62. 120.	-30. 15.	-71. -33.				
	.725 .701	-1.867	4910. 5893.	-6786. -5758.	347. 106.	315. 1306.	-170. -280.	225. 339. 173.	37. 59.	-120. -161. -36.				
11	1.106	176	-1350. -3507. -4390.	-4012. 934. 6660.	315. -393.	1644.	-22. 151.	-16.	71. 22.	62.				
12	2.009	.719	-6,77.	****	-13.	-531.	252.	-100.	-43.	192.				

Table I. (Continued)

	-	,													
				67R0 H000											
	VET .	4.	.) R7	* - 135 ,	, ,,,	9,30	P = 1.65								
	-	4 7	DESIAN	11475 DU	TO CY-	اد بحد	FS (1844	C	7)						
	*OV1:4	(0)	-OM3	14(730)	~*3:4(718)									
	d(1 h	•		m)	4(*=)		4(Fy) _								
	\$613 3573	:33	:45	60,67 62,68	-10.1	11	-531.37 130.14								
	7883	.02	52	21.66	-116.	• 6	130.14			•					
		TIE	T18	Lsb	***	1 %		• •	d(+ h)	- 196	4(%)	F. 8	4(Fx)	Fy	d(Fy)
	1 1	. 83 1 . 877	-1.37 89	£ 130T.	e\$07.		. 17515.	-116.	-472.	7211.	-700,	166.	1.	-125.	30.
	3 1	w	53	3 7589.	16167	. 12367	10741 25761	. 1246.	-1164.	74154.	-1051, 1070,	107. 41. 131.	. 26. -2.	-268. -618.	-11:
	1	.976 .230 .761 .413	-1.19	3 3374	8361 6473		. 14577.	. 776.	41	4173.	-260. 1353. 190. -1053.	154.	-4-	-166. -127.	-31
-	?	::::	11.17	1 -1172. 1 2662. 6 -3516.	-1138 7667	-1162 6421	11071		-117.	-9894. 5-17. 5501.	-1057.	231. 163.	17. 15. 12.	-13	13. 31.
	1	648 312	-2.76 -1.38			-1211 -0211 6821 19244	13733	-1166. 761.			452.	231. 301. 116.	::.	-96. -148.	-18.
	11 1	Ŗ	73 .01		8784 8735 6297	11747 21617	33797 6604	. 7524.	-266. 120. 805.	85%. 6851.	657. 785.	12.	-50.	-170. -164.	3.
	15 5.	358	.47	1777	3377	21611	118	25147.	-162.	4776.		-127.	74.	-175.	, -i.
	819-4								5 Fa.	-	785.		10,		1 5.
•		WT R					(3P COS	COMMONE	rT)						
*	W2 14(6)		(71C) R						•					
	d(Lh)	_	4(10)	•	4(71)		Fy)								
•	-8377.6 4962.1 173.8	3	-8663 2773 -5334	.71	473.98 -232.70 58.65	-	53.44 20.19 88.82								
	1/3.8	•	-3334	. 98	33.63	•									
•			715	Lab	Mab	L1c	MIC.	Lh	4(Lh)	Mh	4(1%)	FE	4(=x)	Fy	4(44)
1	1:	};	-1.375	3646. -936.	3684. 1785.	7575. -1754.	2178. 4349.	1844. -575.	528. 1617.	4352. 654.	574. 1141.	101.	-19. -18.	-tet. 33.	-42. -50.
3	1.9	81) 96	849 553 -1.253	-938. -10510. 3305.	-1383. 3726.	-1756. -19396. 9669.	2550.	-575. -4574. 591.	1617. -1484. -716.	654. -4774. 4242.	1161. -764. 686.	3/18. -67. -97.	-28. 23. 13.	356. -266. -169.	-58. 68. -99. 102.
. :	1.9	30 61	-1.543 -1.971	4327. 9168.	1957. 6348.	8059. 20234.	-165. -196.	2689. 6282.	252. -498.	3016. 9342.	-7524. -158.	-273.	37.	-445.	23.
., }	7 2.0	13 -	-1.251 -1.976 -2.766	1013. 2803.	6665. 6973.	95 90 . 92 05 . 85 67 .	10%. 5728.	1553. -20.	162. 625. -565.	6262. 7517.	2617. 1015.	-169. -59.	-81. -26. 17.	-223. -256.	-70. -30.
10	1.3	**	-1.366	877. 3151.	19861.	6642.	411	-2512. 1611.	100	10761.	933. -7961.	-76.	A 2 .	-378. -158.	18. 33.
11	2.7	75 97	-, 734 -015	325A. 5753.	-1555. -755.	3224. 8288.	-2225. -5203.	3259. 4671.	976. -835.	-125F. 1205.	-7561. 2186.	-97. -178.	-1.	-18	-39.
. 13		39	.272	8391.	-6924.	*150.	-13648.	8187.	15.	-6829.	-42. 1714.	-249	-e. 33.	•.	15. 59.
	474 B. MONT	w .	FB 1 VAT I	VFE 0015	TA CYC! !	C AMDI F	/10 4.0	COMPONEN	104,_	•	1/14.		***		
	M1:4(0			(71C) e				CONTRACT							
-	4(Lh)	•	4(11)		d(Fz)		fy)								
	7730.8 2540.7	2			-112.00		76.38 35.14								
-	2646.7 6266.6	•	-12439 6434 194	. 95 . 24	-162.68 16.47 -154.38	-1	35.14 10.41								
_		_													
	1.8		718 -1.375	Lab -5921.	Psh 1985.	L1c -6185.	M1c	Lb -61°6.	4(Lh) -1666.	INGL.	d(Ph) 1921,	F# 81.	4(FE) -17.	Py 75.	4(Fy) -91.
. ;	1.2	"	169 553 -1.253	-2013	-3011	-727b. -1845. -6767.	-1318.	374. 5658.	-666	-775#. -969#. -793.	640. -1441.			219. 296. 76.	33.
:	1.9	16 ·	-1.253	2306 -6862. -3263.	76A. 1951.	-6769. -3287.	3239.	-1027. -3759.	1717. -1623. 783.	-743. 1262.	-151.	87. -81. 161. 55.	-96. 62. -FR	76	71. -18.
,	2.70	51 ·	-1.971	-\$243. -3°48.	6112. 1885.	-5151. -5339.	10959.	-\$352. -3333.	1969.	1968. 219.	-178. -177. 551.	1%.	14.	-4. 54.	36.
:	1.8				1129.	13*13.	6193. 7417.	-5048. -7858.	-106.	-1876.	1016.	100.	11	786.	28.
11	3:1	,	1.355	-77K3. -11782. -1599. 2003.	733. 1836.	-3366. 6721.	-416.	-1194. 106. 195.	-544. 598. 1424.	2027	1911.	-77.	34. -39. -81. 37.	376. 28. -109.	-31:
12	3.3	,,	.019 .872	3315. 8829.	3992. 7176.	9162. 21967.	2292. 1835.	3063.	-321.	4739. 952 5.	171,	-61. -714.	37.	-247. -523.	39. -3.
21	SPLA				•				1143.	•	938.		42.	-	30.
14	ROMON I C	CON	PONENTS		HELD I	MONENTS			, IOJS SHEA	A FORCE					
			T18	M2¢	LZC	MeC	L+C	ASC	X3C	706	I-C				
1		11 .	-1.375	4274.	1952.	78.	.:12.	-132.		-11.	-61,			•	
,	1.2	"	- 864 - 353 1 253	-5115.	-2162. -8035. -101.	189. 311. 187.	1567. 1662. 492.	-15. 218. -194.	157. 297.	177. -57.	-5b. 11. -4f.				
•	1.0			4135. 3133.	1961.		719.	-194. -192. -319.	-68.	-47.	-64.				
7	2.7	3	1.241	7389. 6797. 6283.	4125. 1186. -548.	1994. 1666. 1235.	719. 157. 367. 528.	-164. -222.	-164. -65. 98.	-126. -43. -24.	-196. -188.				
10			1.976 1.766 1.368	9391. 1745.	-94 95 . 797 .	1953:	1083. 816.	-772.	191.	-11.	-181.				
11	2.17	73		-1030. 305.	2861. 6795.	-276.	AIR.	40. -15.	-68. -217.	-99. -23.	-16. 61.				
ij	3.3	i	.015	-3546.	2004.	-483.	-34. -519.	iii.	-395.	-192.	174.				

Table I. (Continued)

		LOCKED &												
	- 63,			. NJ - 4		-		.:						
		-		TO CYCL		S (HEAR	COMPONENT	1)						
	(FP)	ROUZ:		ROW3:4(7) 4(Fm)		(Fv)								
-	163.33	2155		-21.30	_	467.46								
	154.23 157.83	-\$29: 313	1. 45 1. 45	-6.64 -63.71	-	79.77 -67.98				-				
4	TIC	713	Lab	Hab	Lie	Alc	Lh	d(Lh)	NA	d(mh)	Fa	4(Fz)	Fy	d(Fy;
1	1.780	-0.962 -0.547 -0.061	3725. 3684.	43753.	16005. 12669.	14511.	955. -393.	-1343. 153.	##36. .3410. ##035.	536. -1504. -161. -2647.	10. 30.	-15. 43. 15.	-421. -265.	13. -7.
3	0.322 1.742	-0.823	9970.	11891.	20180. 13243.	.#895. 11279.	-393. 9169. 2592.	1764.	12153.	381. 2647.	30. -4. -16.	-44.	-245.	-42.
5	2.162 2.760	-1.122 -1.656	1318. -648.	2398.	6570. 3086.	7854. 4789.	-997. -2258.	-156. -68.	.010.	-648. -362.	50. 52.	10. 20.	-113. -196.	-11.
,	1.539	-1.656 -0.864 -1.580	3288. 2420.	13912.	20775. 9707.	11238.	-13. -792.	-641. 17.5.	.0098.	-595. 4384.	31.	-5u.	-49s. -49l.	-13.
10	0.671	-2.087 -0.792	-3029. 0108.	19636.	3034.	40914.	-5 099. ##3. 3 1 03.	-1012.	9676. 9076.	-1591. 312.	11.	21. -7.	-243. -315.	-36.
11	1.888	-0.322 0.342	6089. 8637.	9168. 9506.	12176. 46105.	9298. 7761.	34u3. 534i.	•89. •435.	9076. 16266.	-1462.	-70.	11. -11.	-203. -298.	\$4. 6.
\$10	LA.							1059.		1287.		45.		43.
				10 CYCL!		S (3P CO	S СОМРОНІ	ENT)						
	1:4(0)			ROWS: 4(T)										
-	(Lh) 184.29	4(M -3208)		4(Fz) -155.54	_	(Fy) 595.31								
-51	723.71 113.86	1393	7.84	22.51 -140.73	-	263.02 -29.88								
×	TIC	T15	Lab	Hsb	LIc	MIC	Lh	d(Lh)	Mh	d (Hh /	Fa	d(Fa)	Fy	d(Fy)
1	1.780	-0.302	299. 3967	-6576.	-2852.	-7212. -2166. -11196.	4687. 8021.	-764. -2559.	-6449. -25561.	1107.	-26. 364.	-57. 700.	 	-40. 33.
3	0.329 0.322 1.742	-0.547 -0.547 -0.61 -0.823 -1.122 -1.658	12995.	-18377. -51112. -9295.	-790.	-11196. -12692.	11061.	376.	-25568. -26649. -1792.	765.	-603. -136.	-4.0.	>54.	39. -7. 47.
š	2.162	-1.122	-6173. -9754.	-1733. 63-2.	-6234. -6777.	11391	-3271. -10176.	-1670.	-2369.	-1144	203.	53. 64.	435. 84. •38.	44.
7	1.534	-0.864 -1.540	1269.	-10246. -18489.	-3614.	-11833. -19756.	3422. 3443.	-74	-9563. -17913.	1270.		-60.		-21.
10	1.672	-2.687	-8224. 3089.	-26176. -9356.	-21355.	-16602. -11540.	-3473.	-1694.	-21650. -4345.		235. -87.	-la.	485. 160.	-20.
11	2.359	-0.798 -0.322 0.342	6159. 10323.	-5090. -635.	3846.	-8110. -5092.	4845. 7174. 9333.	31.	-3756. 1332.	2077. 480.	-179.	-84. -53. -26.		-10. 1.
SIGN		*****		••••		,,,,,,		4840.	*****	2130.		428.	74.	43.
Huig	MOMENT	TAVIRSG	VES DLE	TO CYCLI	C ANGLES	(3P SI	COMPONE	MT)						
ROWL	:4(0)	RQU/2:0	(T10)	ROW3: d(T1	5)									
	Lh)	4(10		d(Fx)	_	(Fy)								
-124 -124	83.53 72.09 28.76	20735 -6064 10260	. 42 . 87 . 98	-673.59 285.03 -1.08	-	121.18 156.88 109.64								
4	TIC	TIS	Lab	Hsb	- Lic	Mic	Lh	dilh)	Mh	d(Hh)	Fz	d(Fz)	Fy	d(Fy)
1 2	1.780	-0.902 -0.567	7508. 19051. 32216.	-862. 2116.	8645. 25079.	-6526. -8049.	7002. 16383.	-1283.	753. 0234.	73. -2833.	-147. -607.	. s .	-45.	7.
3	0.923 2.322 1.762	-0.061	32216. 9513.	12357. 3149. -6676.	13423. -87.	-3168. -1081. -7475.	26974. 7784.	4330. -84.	19190. 3011. -6323.	1036. 3484.	-621. -101.	•34. 1.	-474.	-io. -d 51.
3	1.742 2.142 2.760	-0.823 -1.122 -1.456	-4726.	-1188J. ·	-10764.	-12330.	3565.	349. 1715.	-14562.	5284. -2556. 458.	-34.	30. ->>.	10s. 23d.	\$1. -40.
7	2.760 1.539 1.008	-1.456 -3.864 -1.580	11150.	-676.	13476.	-6635. -12958.	.0109. 18100.	-367. 413. -751.	4326.	-211. 2343.	-355.	-2d. -45.	-14.	-64.
10	1.672	-2.087 -0.798	20914.	-11889.	18342.	-23088. -3631.	18104. 18104. 14034. 7686.	-13/9.	-6967. 3309.	-2135. #01.	-133.	32. ♦.	-1.4. 3. -140.	81. -38. 74.
11	1.888	-0.322 0.342	6326.	4712. 9251.	8462. 5812.	1925.	>467. -1888.	-627.	5937. #146.	-44. -794.	-111.	44.	-63.	74.
8 / CPL	A							1023		1869,		46.		51.
HARM	ON 1C CO	MPONENTS		HUE I	CTR 3HQ			HUS SHE	R FORCE	•				
×	Tic	T15	MRC	ue	m·c	L+C	TAE	120	Y+6	140				
1	1.788 0.929 0.322	-0.907 -0.547 -0.061 -0.823	-5665. -20166.	1226, 7307, 19125,	337. -4563. 163.	467. 714. -65.	136. 392. 586.	-35. 264.	-10. -14.	40.				
3	0.322 1.762 2.162	-0.061 -0.823	-26811. -7788.	19125. 6236. -4797,	-4.	1225.	586. 162.	-439. -146. 102.	-35. -7.	35. 40.				
\$	2.760	-1.127	-3717. -101.	-11360.	348.	1526.	162. 57. -50.	221.	13. áu.	-15.				
7	1.539	-0.364 -1.580	-9826. -18944.	287%. 2520.	283. 125.	546. 1163.	425. 377.	-79. -82. 119.	-19. -11.	38. 38.				
1	0.671 1.672 1.888	-2.617 -0.798	-21862. -8035. -4612.	-5410. 4077.	-349.	546. 2163. 1537. 768.	176.	-114.	-17.	16. 26.				
11	1.888	-0.322 0.342	-4612. 1606.	6556. 9542,	854. -274.	619. 396.	-12.	-102. -136.	-43.	-19. 18.				

Table I. (Continued)

	15T 16 1T = 60,		YRO HORE - 60,2		1,13 F	- 3,88								
				TO GVOL		s (rtm	COMPONEN	r)						
80	P/1:4(4)												:	
	4(Lh)	40:		4(Fx)		(Fy)								
	159E 09 80B 08 276E 58	1674 -349 172	0. 17 2. 53 6. 27	-55, 9 2, 5 -49, 1		393, 69 62, bb -38, 65								
	TIC	715	Lsb	ffsb	Lie	Ric	Lh	4(Ui)	170	d(m)	Fx	d(Fx)	Fy	, 4(*y)
10 11 12	1 214 1 581 1 528 1 329 1 101 2 422 2 603 1 456 1 456	-1.998 -1.531 -1.094 -2.940 -3.052 -1.052 -1.070 -3.429 -1.911 -1.035 -0.409	-1573. 1199. 3654. -327. -2617. -2523. -2599. -4657. 2372. 4925.	6082, 6767, 10736, 5125, -396, 7267, 6179, 6918, 5357, 6027,	2237. 6413. 10352. 3988. -2340. 86. 7128. 2334. -409. 5203. 9348.	661a. 7883. 3078a. 676a. 2328. 7785. 8432. 9867. 6860. 5133.	-9251. -1099. 383. -2238. -2545. -2962. 206. -6653. -6876. 2958.	-160n, -247, 576, -525, -161, 667, 1817, -283, -176, 567, -649, -188,	296h. 6278. 10709. -528. -1542. 703h. 5187. 561h. 5681. 3560.	-1596, -137, 1064, -197, -1617, 1617, 1755, 57, -192, -1192, 639,	191, 42, 87, 192, 190, 21, 918, 43, -28,	38, d. q. d. q. d. q. d. q. d. q. d. q. d. q. d. q. d. q. q. q. q. q. q. q. q. q. q. q. q. q.	-152. -207. -277. -173. -84. -192. -184. -176. -157.	16. -7. -13. -5. -57. -16. -15. 5. -3. 17.
. 81	CDIA .			-		•		758.		1054.		21.		34.
110	B MONEUT			TO CYCLI		1 (3P co	COMPONE	OT)						
	W1:4(0)		.,	CO13:4(1)			4							
	d(Lh)	4(1:1		4(FE)		(Py)						•		
1	4575, 37 4485, 03 2404, 38	-261; 2061 2654	2. 96 1. 59 1. 12	-264, 87 70, 91 -57, 47	:	25. 43 -31, 84 -42, 49								
*	710	T18	Lab	Fab	Lle	File	Lh	4(Lh)	Ph	4(19)	Fx	4(FE)	Py '	4(Fy)
1 2 3 4 3 6 7 8 9 10 11 12	2.515 2.214 1.501 2.522 3.329 4.161 2.422 2.403 1.450 2.484 2.938 3.406	-1. 992 -1. 531 -1. 994 -2. 840 -3. 052 -1. 884 -2. 704 -3. 629 -1. 811 -1. 035 -0. 669	-4754, 29f. 517*. -937. -1127*. 169*. -2941. -3104. -322. -2623, -1681.	-1741, -2847, -2572, -3510, -347, 542, -1525, -5027, -7160, 718, 5769,	-6080, -1463, 4572, -3185, -3185, -13508, -550, -6318, -7727, -2692, -2161, -283,	167, -1875, -5616, -1070, 2653, 5736, -2302, -6350, -6026, -18702, 6388,	-4167, 1071, 5442, 54, -8134, -10780, 2681, -1451, -1085, -2537, -2294,	-2673. 128. 245. 1528. -1874. 1185. -520. -277. 1188. -1433.	-2765. -3253. -1238. -1278. -1710. -1766. -1268. -6762. -8087. -2275. 286. 386.	-52. -1164. 1164. -1763. -885. 1329. -1126. 612. 206. -521.	20, 38, -129, 89, 11F, -70, -70, 67, 57, 13, 30,	34, 44, -44, -14, -17, -40, 14, -26,	5%, 7%, 2%, 90, 61, 84, 185, 185, -28, -56,	-17. 2% -2% -3% -5% -5, -6, -8, -7, -2,
. 81	ZP:A	• . •						2619.		206.		32.		. 17.
HU	THEFT P	MERIVATI	VES PIJE	TO CYCLE	C PIGLES	5 (3P S11	COMPONE	17)		,				
	H1:d(0)			R01/314(T1										
	d(Lh)	d(Hh	3	d(Fx)	d	(Fy)						•		
-	5750, 68 2716, 92 3125, 21	10783 -3245 2888	. 52	-12%, 26 67, 59 39, 12		73. 06 75. 16						1 :		
	TIC	718	Lab	Pab	Lic	Fic	Lh	d(Lh)	· #h	4(1%)	**	d(*x)	Fy	4(Fy)
12 3 5 5 6 7 19 11 12	2 528 3. 324 % 161 2 627 2 607 2 686 2 930 2 486	-1.99E -1.531 -1.974 -1.949 -2.652 -1.884 -2.764 -1.429 -1.429 -1.435 -0.669	%686, 6282, 6335, 3786, 1377, 3182, 4969, 623, 12717, 4072, 1372, -30°1,	-517%, -10%%, 13%%, -25%7, -25%7, -27%, -27%, -27%, -21%7, -187%, 315,	\$294. \$736. \$177. \$656. -1217. \$730. \$773. 13044. \$24. -2824.		6761. 5367. 5367. 53171. 5315. 6527. 5531. 11960. 3877. 1678.	-623, 1961, 275, 1366, -1160, 1160, -584, -709, -566, -1168, -653, -1168,	-2598. -57. 2195. -1595. -7593. 723. 1894. -1726. -1936. -1798.	-1845. -658. -1645. -174. -1874. -487. -662. -667. -908.	-52. 	39, -11, 17, -9, 35, -9, -27, -50, 6, 35, 17, -73,	22. 20. -10r. 55. 77. 17r. -6. -31. -18. 26.	-1, -9, -17, -12, -29, -13, -22, 21, -31,
- 1	M A		- '					992.		138%		24.		24,
146	940 516 CO				MONESTES			MUS SME	AR FORCE	ree .				
1	T1c 2.515	716 -1. 998	M2C -3743.	-3381.	998.	L+C -786.	¥2¢ \$3.			34.				
2 3 5 6 7 8 10 11	1 501 1 501 1 528 1 329 1 161 2 003 1 150 1 160 1 160 1 160	-1 531 -1 094 -1 949 -2 440 -3 052 -1 884 -2 704	-4857. -3302. -5285. -2461. -2467. -7637. -10775. -3061. -547.	507. 3817. -755. -7128. -937. 1702. 222. -1395. -967. -2164.	1604. 2064. 925. 731. 1685. 1679. 295. 1936. 766. 881.	564, 1625, 810, -1037, -343, 979, -1673, 336, 979, -373, -1393,	26. 50. 22. 72. 79. 164. 163. 64. -1.	86. 29. -118. 67. 98. 192. -30. 31. 13. -3. 33.	-10. -26. 0. 9. 17. -2. 10. -10. -10.	9. -1. 22. 21. 16. 37. 44. 16. 6.				
										,				_

Table I. (Continued)

	T 11. (700 MONE							,				
	· #.		• 34,2			- 5.1s								
				TO CYCL		s (nem	Ca::P0+1E41	r						
	(LM) (LM)	4(10	-	ROUS (4(T) 4(Fx)		(Fy)								
_	385, 73	14780	•	-79. 8		1777 344. 8 7								
1	112.74	-2179 920	i. 18 L. 03	14. 51 -26. 91		33. 14 -24. 85								
Ħ	710	TIS	Lab	Meb	Lle	Me	Lh	4(Uh)	M	4(' 76)	**	4(F#)	Fy	4(42)
1 2 3 5 6 7 8 9	1, 700 5, 478 2, 31h 1, 397 1, 839 4, 740 5, 674 1, 195 3, 319 2, 761 3, 769	-1. 611 -1. 212 -0. 331 0. 311 -1. 775 -2. 340 -3. 003 -1. C77 -2. 256 -2. 969 -1. 611 -0. 911	2024, 3547, 6037, 6818, 1734, -487, 121, 1713, 1850, -91, 2881,	5368, 7268, 9170, 12170, 1736, 2374, 1352, 5374, 5376, 5381, 5768,	612%. 4876. 13017. 14377. 5526. 2677. 2782. 7230. 6301. 4295. 7538.	5630, 6590, 8080, 9536, 5376, 3020, 6051, 7269, 5800,	721. *01. 2957. 3443. C%. -1875. -1052. 735. -112. -2009. 215.	-20%, -20%, -20%, -25, -11%, -1077, E18, -400, 301, -68E, 50%,	\$217. 7387. 9673. 11881. 4437. 1694. 623. 5130. 5274. 5776.	-79, 604, 224, -176, -616, -624, 531, 113, -774, 615,	11. -14. -43. 27. 63. 25. 25. 25.	-4. -7. 5. 13. -11. 4. -17. -15.	-221 -270 -370 -151 -100 -170 -175 -175 -175	4 h. - q; - 2 q, b, 2 2. 3. - 1 2. - 7. 0, b, 1. - 1 1.
12	L 755	-0. 243	5266. 3107.	5846, 3233,	9364. 7346.	5541. 3680.	2105. 1237.	771. -927.	5977. 3034.	103º. -1187.	-12. 18.	-1K. 22.	-196. -179.	-11. 11.
310	14							596.	•	597.		12.		. 12.
4458	TESTADA	ner i v at i	AES UNE	-	a mate	< (3P cg:	COMPON	ENT)						
ROW	L:4(0)	POPEZ 2 A	(T1C)	8 <i>M1</i> 3:4(T)	\$)									
	(41)	4(19		d(fx)		(Fy)	•							
-1: 1:	139, 83 787, 31 138, 66	-1426 46 2701	i. 50). 62 I. 1 6	-128, 79 39, 01 -29, 60		9. 47 2. 18 -42. 92								
	TIC	T18	Lab	Hab	Llc	nic	Lh	d(Lh)	FTh	4(176)	Fg	4(Fx)	Fy	d(Fy)
3 4 5 6 7 8	1. 700 1. 078 2. 314 1. 397 1. 435 1. 740 1. 470 1. 496 1. 319	-1. 611 -1. 212 -0. 331 -1. 765 -2. 340 -3. 003 -1. 677 -2. 254	-3548. -810. 2364. 5826. -2596. -7769. -7715. -3377.	-8299. -8808. -2175. -1811. -8807. -6088. -7369. -4179. -7478.	- 5959. -2854. 1546. 6307. -4193. -8395. -10874. -5193.	-2362. -3490. -3682. -3681. -2701. -5319. -3542. -2203.	-2924, 71, 2723, 5610, -1747, -3176, -6340, -2633, -2377,	-1193. 176. 262. 650. 432. 1382. 420.	-5150, -4804, -1510, -410, -5156, -7278, -9009, -4739, -8759,	494. -718. 722. 11f. 898. 279. 335. 1076.	77. 37. -60. -91. 68. 111. 151. 117.	14. 9. -32. -7. -5. -15. -22. -77.	56. 82. 33. -19. 68. 143. 124. 72. 132.	-30, 14, -18, -26, -26, -25, -18,
10 11 12 13	2.761 3.769 4.139 4.755	-2. 769 -1. 611 -0. 911 -0. 243	-3835. -3750. -3737. -2287. -2721.	-9364, -4223, -6794, -1542,	-10174. -5193. -7191. -7451. -5660. -4633.	-4560. -7775. -3060. -1839. -17.	-2377. -1961. -2877. -1262. -2261.	-465. -69. -1022. 336. -477.	-8734. -10158. -1733. -5953. -2213.	-1358. -678. 108. -2235. -319.	117. 56. 47. 115.	49. -3. -19. 55. -3.	152. 154. 77. **. *2.	18, 21, -10, 37, 11,
\$1G	IA							680.		434.		25.		21.
HUS	HOMENT	neri v <i>e</i> t i	VES NUS	TO CYCLI	C MINLES	1 (3P SI	-	(TIC)						
RON!	1:4(0)	POH12 : 4	(T1C)	RM/3:4{T2	(2)									
d)	(Lh)	4(14)	•	d(fx)		(Fy)								
-11 -14	42, 24 122, 33 186, 21	9729 -3102 700	. 45 . 78 . 53	-66, 67 36, 76 32, 64	-1	152, 29 45, 37 -7, 39								
	TIC	T18	Lab	Psb	Lic	Alc	Lh	4(Lh)	196	d(M)	**	d(Fz)	Fy	4(#y)
1 2 3 4 5 6 7 8 9 10 11 12 13	1. 700 1. 078 2. 314 1. 597 3. 635 4. 740 1. 498 3. 319 2. 763 4. 139 4. 755	-L 611 -L 212 -0.331 -L 765 -2.300 -3.003 -L 677 -2.256 -L 611 -0.911 -4.243	-1537. -1416. -1110. -1003. -1602. -1921. -3096. -1716. -1427. 1086. -1101. -4153. -6252.	-2207, -1276, 2482, 51°9, -4389, -8588, -1710, -1967, -1761, -2703, -4545,	-2477, -1815, -1174, 1001, -3292, -5865, -3347, -1104, -2816, -5177, -8148,	-2871. -540. 2708. 5026. -3849. -6637. -7144. -2203. -3355. -1801. -1784.	-1122. -1235. -1025. -943. -189. -1892. -1933. -1542. 1282. -345. -3644. -5413.	27%, 55. 661. -257. 1291. -557. 524. -1529. -195. 1124. -771. -808.	-1991, -1658, 2381, 5272, -6626, -9837, -1833, -1353, -1713, -92768,	911, -764, -753, -1175, -7187, 583, 1693, 337, -119, 1803, 882, -945,	-19. 26. 8. -7. 22. 60. 25. 14. -58. -7. 56.	-98. 10. 1. -2. 5. 27. -11. -8. 8. 7. -22.	38, 16, 3, -8h, 65, 157, 111, 65, -11, 20, 69, b1, 76,	-18, -27, -13, 10, 57, -27, 8, -56, 5, 18, -21,
. SI CO	i							783.		1626.		. 14	•	. 25.
		MPONENTS			HOMENT S	-			MR FORCE					
	TIC	T16	MEC	LZC	inc.	Lac .		140	Y+C	Tec				
1 2 3 4 7 8 9 10 11 12 13	3.700 3.678 2.316 2.397 3.835 5.470 3.896 3.319 2.761 3.769 6.755	-1. 611 -1. 212 -4. 331 -1. 765 -2. 347 -1. 677 -2. 254 -2. 269 -1. 611 -6. 243	-2014. -214. -214. -214. -2177. -3577. -1877. -5679. -1132.	-2658. -684. 2552. -5185. -5277. -7589. -1267. -2255. -2267. -2267.	-3136. -3020. -1295. -1167. -3744. -7466. -3159. -2539. -4831.	-668. 775. 171. 169. 2821. 1249. -369. -272. -290. -562. 1026.	38. 28. 12. -5. 50. 29. 71. 112. 60. -35.	54. -29. -47. 67. 134. 136. 53. 54. 56.	14, 54, 21, 11, 112, 75, 61, 54, 57, 74,	10. 10. -31. -25. -25. -7. -7. -12. -7.				
.,	· />>	(4)	1000.	714.	-3813.	4/33.	- >>.	**	/ 🖦	-,.				

Table I. (Continued)

TES	17 11 1 - 10.	LOCKED (YNO MICH - 157,2		0.40 <i>1</i>	- 1,35	•							
***	MO-E-T	DE-FVAT	res Dut	10 CYCL	16 4- 9. 8	\$ {+E4=	Cum week a	r)						-
	1:4(0)		4(T1C)	90W3:4(T)	LS)									
-	(IR)	41-4		d(F±)		(Fy)								
10	162.75 164.26 726.30	4508 -1719 1124	. 61 1 . 56 1 . 66	-57.11 -180.11	-	517,70 177,60 -72,77								
•	720	T15	100	Pab	L M	=1c	**	4(Us)	***	d(=h)	Fz	d(F±)	Fy	d(Fy)
2 3 5 6 7 10 11 12 13	.526 3.101 1.033 2.102 1.765 2.292 1.053 1.654 1.337 1.608	851	-6136. 6752. 7237. 6178. 3266. -8566. 23666. 11366. 27657.	9132. -8731. 15042. -7340. -7176. -3613. -5061. 13254. 13255. 14750.	6850. -4548. 11653. 20968. 4675. 7215. -6850. -21013. 11134. 17933.	-31396, 12355, -1878, -1878, -638, -636, 10315,	1079. 2162. -1175.	1523, 956. -1614. -1977. -1077. -821. -1686. 2003. -277. -2806. 262.	21188. -23757. 7704. -11769. 13609. 2203. -4955. 5515. -7412. -10056. 12002. 11887. 16051.	-1173. -1762. -195. 1047. 2294. -2941. -2362. -3564. -436. -536. 1507.	156. 155. 129. 129. 120. 120. 120. 150. 165. 165. 167.	57. -40. -3. -7. -12. 25. -44. -17. -8.	-152. 1. -278. -133, -16. -134. -21.	27, 16, 60, 6, -61, 19, 31, 62, 3, -56, 5, -67, -15,
14 21 0	2.235	.762	40317.	13455.	\$557 \$.	*1>>.		2501. 1476.	10>00.	3336.	-100.	-38. .52.	-410.	36,
_		DERIVATI	VES DUE	TO CYCL	C APGLE	\$ (3P CG	S COMPON					. 177		
	1:4(0)			P4314(T)									•	
4	(m)	46-4	-	4(Fa)	-	(Py)								
-61 51	763.76 176.55 88.56	-836 -1453 -3384	.69 : 09 : 51	678.63 -443.65 37.33	-	167.17 141.16 35.16								•
4	TEC	TES	100	Mab	f 14	#1q	th	6(14)		d(m)	fa	d(Fa)	**	d(Fy)
1 3 6 7 8 10 11 12 13	.525 3.141 1.535 2.158 2.262 1.525 1.525 1.525 1.525 1.525 2.255	625 -1.698 -1.116 -1.946 671 661 -1.239 515 -1.830 -2.578 651 651 651 752	\$47. 7016. 3175. 4010. 1397. 4027. 5434. 430. 3203. 4810. 480. 4161.	2033. -12650. 1310. 1310. -2176. -2267. -2311. 170. 1627. 6138. 500. -2255. -5723.	139v.	780h. -3901h. -1026. -5766. 935. -5744. -10705. -1070. -1178. -7960. -1417. -4177.	-655. 14761. 3835. 6773. 1395. 5186. 7348. 8121. 3540. 4016. 6401.	631. 1838. 236. -758. -2652. -566. 2128. -1702. -481. 480. 1956. 1956.	-511. -390. 2717. 5234. -1021. -615. 2067. 1067. 1352. -1563. -4335.	-432. -1838. 1863. 2258. -258. -672. 1714. 830. -2192. 1281. 12. 289. -1453.	231. -1054. -128. -278. -125. -452. -83. -112. -73. -63. -116. -21.	-188. -281. -106. 107. 64. 55. -82. -67. 264. -129. 16.	-113. 548. 67. 168. 178. 178. -71. 74. 185. 225. 199.	61, 185, 7, -10, -60, -26, -67, 73, -66, 67, 64, -110,
8167	₩,		÷			•	٠.	1353.		3564.		_145,_		.50.
				TO CYCLI		(3P 518	COMPONE	NT)						
	.:=(0)			PM3:d(T):										
	(h) 12.23	-33068 -33068	-	4(FE) -376.33		(Fy) (58.58								
-29	08.54 44.71	-2756	3:	\$0.66 -236.43	- ;	13.55			e e					
•		730	100	-5032.	116.	بر جاند		. 4CINL.	-5970.	WAL.	fk.	-32.	fv LSh.	4(FV) -25.
19 11 11 11 11 11 11	.578 3.101 3.033 2.102 1.395 2.788 2.262 1.023 1.623 1.523 1.327 1.408 1.652 2.255	629 -1.653 -1.116 -1.566 -1.661 861 116 -1.130 -2.570 666 -2.57	2003. -613. -768. -768. 3063. 1083. -1763. -524. -616. 879. 1085. 2765. 6440.	26313.	7124. 1943. 8523. 2014. 3784. 5104. 3437. 5820. 7497.	-1880. -4485. -11954.	1097. -9194. -1951. -4575. -468. -740. -2192. -2301. -2301. -2301. -2301. -2301. -2301. -2301. -2301.	-1825. -1541. -1265. 2187. 2187. -2457. -1555. 64. -852. -1754. 166. -45. 4717.	18246. 2007. 8017. -216. 8636. 8607. 8608. 3763. 1938.	120. 2101. 5271574153733710511051097. 17721152750.	-277. 118. -38. 129. -02. 29. 100. -19. 212. 318. -129. -387. -507.	1. -3. -69. 54. 198. 73. 61. 64. -58. -6. -49.	-108. -108. -361. -362. -367. -277. -277. -277. -285. -40. -116.	-15. -10. -10. -10. -10. -71. -71. -7. 107. -79. 107.
8104				1412 1	ONENTS			2363.	AR FORCE:	160). '		44 .		75
II.	The	POHENTS:	MLC.	LZC .	Mr.C	Loc	726	_	307	I46				
1 2 3 6 7 4 10 21 12 13	.526 3.141	b 2 6 -1. 5 7 8 -1. 12 6 -1. 12 6 -1. 12 6 8 7 1 8 6 1 -1. 23 3 -1. 23 6 -2. 5 7 9 -8 5	-2100. -552. 2230. -550. -2650. -635. 3270. 3277. 3220. -637. -1077. -6170.	-5534. 16580. 5351. 7010. 520. 6378. 7730. 5760. 6176. 5199. 3038. 5318. 5480. 3200.	1153. -4542. 325. 537. -174. -165. 1513. 653. 654. -167. 762.	2636. -1620. 544. -657. 806. 709. -345. 357. -226. -1958. 570. 1950. 2485. 3140.	82. 175. 63. 20. 30. 36. 72. -23. -23. 207. 388. 353.	102. -778. -119. -321. 57. -103. -380. -101. -101. -101. -106.	-155. 365. 145. -21. 67. 108. 55. 123. 127. -18. -21. -31.	34. -318. -19. 43. 16. -13. -72. 17. 65. 172. -120. -180.				٠



Table I. (Continued)

-1. -3. 25. -9. 14. 21. -16. -15. -16. -25. 16. -1.255
-1.129
-.431
-1.024
-1.126
-.680
-1.191
-1.796
-.927
-2.313
-3.514
-1.246
-.277

Table I. (Continued)

7887	13 (:0HT HUES	•							
			BMASHPL.	ATE BERI	VATIVES :	BUE TO C	YCLIE A	MELES		
		•	MEL:400) ME214	(TC) 'M	3:4(18)				
			(3P co	s corron	 (117)		(3P SIN	COMPANY	IT)	
			d(Lap	4(1	1 00)	-	4(Lm)	d(Me	•)	
		•	111 -77 . U	.19	37,70 69,69 68,77		-11. -11.	11. 7	1.47 0 49 1.10	
	TEC	T18 '	Lap	M(Lsp)	Maj	0(469)	Lso	P(Las)	Nap	S(Nap)
1 2 3 6 5 6 7 8 9 10 11 12 13 14 15	1.012 1.068 .686 1.012 1.012 1.010 2.069 1.050 2.069 1.312 1.105 1.925 1.076	-1.129 631 -1.028 -1.126 620 -1.191 -1.706 927 -2.513 -2.513 -1.208 277	-799517285353185206898989898.	-8. -18. -18. -18. -18. -18. -18. -18. -	be. 92 58. 91. 100. 3 56. 207, 154. 27. 75 150.	-34. 16. 13. 13. 12. 12. 12. 12. 13. 13. 13. 13. 13. 13. 13. 13	8, -12, 52, 17, -2, 21, -31, -32, 67, 188, -2, -2, -53,	-3. -10. 9. -15. -15. -11. -32. -5. -5. -7. 37. 35.	9. 9. -64. 16. -9. -40. -10. -4. 9. -146. -13. -146. -124.	19510. 136. 1151646. 3. 19. 11. 11.
100.00	10 115 CI	DIMPONENT:		1948	MOMENTS			1648 \$40	EAA FORC	ts .
	TIE	T15	M2C	rse ,	MC	L+C	ATC	X4C	Y4¢	1+6
1 2 3 4 5 6 7 9 10 11 12 13	1.812 1.968 1.612 1.612 1.600 2.40 1.956 2.669 1.691 1.312 1.312	-1.253 -1.129 -1.528 -1.128 -2.126 -3.00 -1.191 -1.796 -2.313 -3.516	3707. 3885. -5602. 2223. 2850. -638. -3577. 3660. 262. 7760. 11926. 3270.	2788. 3230. -2629. 2629. -929. -5333. 3566. 8473. 1886. -246. -579.	39. 27. -152. -17. -208. -1308. -1308. -72. -532. -532. -1510.	755. 898. 1495. 563. 1171. 430. -720. 1542. 1214. 887. 2149. 1852.	-227. -318. -2302. -266. -321. -375. -915. -515. -273.	-170. 533. -61. -88. 173. 609. -191. -311. -98. 135. 289.	-149. -213. -77. -114. -163. -17. 132. -211. -334. -97. -262. -267. -179.	38. -276. -33. -2. -119. -207. 80. 25. -144. -209.
ï	1,644	277	-413. -10791.	\$809. 2557.	27. -82.	386. 112.	10. 195.	-259.	-75. 144.	74.

Table I. (Continued)

TES	T 14 I	LOCKED GY	RO HODE											
VKT	• 42,7	a gpu	100,2	NU - 0	P	- 2,03								
HUB	HOMENT	DERIVATI	VES NUE	TO CYCL	C AMBLES	S (PEAR	COMPONENT	r)						
ROW	lid(0)	80W2:d	(T1C)	ROW3:4(1)	\$)									
4	(Lh)	4(1%))	d(Fm)	41	(Fy)	_							
	101.71	21667	.57	-37,86	-1	77.68 57.31								
6	178.97 542. 0 7	-5767 6345	:76	1.42 -79.45	•	37.14								
	TIC	TES	Leb	Mab	Lic	Mic	Lh	4(LH)	M	4(M)	Fz	d(*x)	Fy	4(Fy)
1	1.373	931 521	6622. 9612.	13366.	10963. 16495.	16167.	7656.	-185. 325.	13014.	781. -155.	31. 22.	17:	-173. -195.	-13. 16.
3	2.210	-1.264 -1.554	\$057. 2388.	7115. 2497.	7539. 3838.	8763. 48 4 8.	3960. 2749.	69A. 53.	6324. 3432	-3348.	86. 98.	; :	-99. -59,	°i,
5	3.226	-2.199 -2.196	-1313. -1411.	-567. 7776.	-798.	2997. 18719.	-1451. -3026.	54. -312.	-2168. 6471.	936. -52.	147.	-17.	-13. -110.	-6.
7	1.342	-2.931 -1.106	-7090.	6798.	-1783. 6330.	11685. 5296.	-8192. 6395.	-298. -230.	454A. 2965.	-728.	194.	ii.	-92. -54.	17.
1	2.100	-1.010	5899. 15714.	4185. 10169.	7618. 19376.	\$365. 2018.	5226. 14091.	-542.	3663. 11075.	-215. 746.	47. -83.	-12.	-61. -145.	-11.
\$1G		•						368.		641.	-	10.		11.
						(3P CO	S COMPONI	ENT)						
	1:4(0)			ROW3 : d(71										
-	(Lb)	d (20)	-	4(Px)		(Fy)								
•	99.07 32.05 146.48	-33992 12717 -8936	.09	-504.35 12.44 -334.91	-	09.10 66.01 147.05								
	TEC	716	Lsb	Meb	Lie	Mic	Lh	d(Lh)	Ph	4(M)	FE	d(Pz)	Fy	d(Fy)
1	1.373	931 521	-7726.	-8755. -22999.	-12978. -20318	-8280.		-635. -759.	-8959. -20940.	-741. -983.	19. -186.	-6. -65.	210. 459.	3. 22.
į	2.210	-1.264 -1.554	-2105. -6429.	4985. 15658.	-1939. 2557.	7907. 22610.	-3185.	1675. -1562.	3579. 12585.	-1625. -1223.	120. 278.	*27.	-15.	30. -51.
Š	3.226	-2.109	-5947.	29136.	4363.	39718.	-10486.	-1118. -54.	24455. 6913.	-1435. 2218.	421. 478.	-20.	-412. -47.	47. -33.
ī	1.536	-2.146 -2.931	-25223.	12184.	-23239.	37321.	-17163. -28001.	118.	9911.	645.	761.	48. -107	-79.	٠,
į	2.814	-1.106 -1.020	1119. 1830.	12547. 13146.	9192. 6827.	12450.	-373.	2454. -12.	12591. 12693.	920. 1221.	-5. 58.	-35.	-293. -299.	-1. -5.
10	2.849	.469	15408.	-6090.	15211.	-11632.	15485.	-707.	-764.	1185.	-302.	123.		-12.
814	u							1111.	*	1331.		a-		27.
HUB	HOMERT	PERIVATION	VES DUE	TO CYCL!	C AMBLES	(3P SII	COMPONE	L						
ROW:	(0)	90W2 1 d	(720)	ROW3 : 4(T)	s)									
đ	(Lh)	4(Ph)		4(Fz)	40	fy)								
-14	196.17 192.88 134.8\$	-5191. 6875. 9007.	. 70	-971.31 397.62 -199.55	-	44.04 72.55 97.45								•
	TIC	715	Lsb	Mab	Lle	Hic	LM	4(Lh)	100	d(M)	71	d(Pg)	Fy	4(Fy)
1	1.373	931 521	8677. 22660	-10005. -13009.	20864.	-1720b. -26256.	9976. 23525.	1116.	-6824. -7164.	-865.	-798. -530.	-11 45	110:	:1::
į	2.210	-1.364	-6217.	-4541. -2102.	-9452.	-3486.	-4796. -16981.	2283. -16.	-1891. -4821	914. -624.	57. 421.	-109. 29.	129. 147.	-5. -11.
i	1.226	+2.109 -	-30578.	-361. -16295.	-34359.	17755.	-28098.	2365.	-9353.	197.	725.	-19.	151. 363.	-76.
ž	1.534 1.342 2.814	-2.931 -	-18957.	-22351.	-3217#. -3217#. -19211.	-17466.	-13119. -15312.	-582. -1090.	-24494. -1629.	552. -196.	196. 418.	49.	529. 108.	, Š.
10	7.516 7.640 2.649	-1.106 - -1.010 -	-16517. -17217. -4893.	1154. 15141.	-20915.		-15317. -15576. 1651.	-107M. -1029. -822.	-1477. -2890. 14173.	-148. -1622. 1286.	367.	19.	108. 148. -294.	96. -39.
210		, 4=2	4673,	47174.		>44.	4474.	1931.		819.	•	48.	~4.77.	M.
								_						

Table I. (Continued)

TES	T 14	Ç0117 XIVID	•							
			2044.5315	LATE PER	I VAT I VE	BUE TO	CYCLIC A	MELES		
			MEId	(0) (M2	d(TC)	Ne/3:4(T8	j			
			(3P CM	consome	HT)		(3P SIN	COMPON	EMT)	
			d(Lap)	45%	10)		d(Lap)	4(1	les)	
		•	•33. •33. •21.	56 1	16.51 16.82 12.55		29. -34. -32.	ii :	15.12 -15.20 17.54	
	TIE	T18	Lap	B(Ls#)	Hep	\${Map}	B(Lsp)	Map	t(map)	
1 2 3 6 7 8	1,373 ,734 2,210 2,040 3,226 1,534 1,342 2,840	521 -1.264 -1.334 -2.109 -2.146 -2.031 -1.108	-18. -53. -53. -12. -209. -53. -101. -101. -58.	1. -23. 7. 11. -2. 68. -81. -21.	-84, -306, 15, 94, 159, 16, -19, 111, 137,	22. -82. -13. -13. -59. 62. -8.	-11. -10.	-66. -74. -172. -172. -110. -207. -11. -46. 150.	-51. 12. -24. 4. -15. 24. 17. -11. -27.	
814	MA.		,	22.		45 .	34.		25.	
na#	MONIC C	OMPONENT S	Sa	100/8	MOMENTS			MIS SIM	EAR FORCE	:
	TIC	T15	MIC	ue	M+C	L+C	A1C	140	T+C	I+C
3 6 5	1.373 .736 2.310 2.666 3.226 1.534	-1.364 -1.554 -2.169 -2.346	-9667. -22233. 6188. 16783. 26875. 7892.	-5465. -5038. -7163. -9420. -16878.	589, 1292. -689. -2198. -2221. -1079.	710. 1698. 853. -362. -1066. -266.	249. 695. -62. -356. -569. -43.	69. -53. 124. 212. 287. 428.	-39. -35. 8. 75. 154.	-50. -133. -6. 66. 136. 57.
7 8 9	1.541 2.516 2.500 2.549	-1.050 -1.050 -1.650	11515. 13951. 14035. -1207.	-25296. 127. -1632. 16829.	-1684, -1361, -1542, 443,	-791. 1754. 1259. 636.	-138. -507. -283.	645. 52. 103. -288.	58. 104. 84.	116. -56. -45.

Table I. (Continued)

TVS	ו עד	OCKED &	/80 word											
_	82.0		· 12.1		1.12 /	- 2.64							•	
				TO CYCL										
	1:4(0)			10 CYCL		5 (RC)	CIT-IP-DILEN	"						
	(Lh)	4(18		d(Fa)		(Fy)								•
	224. 12 -26. 55	26389	5. 00	-42. 8		258, 84				-				
5	-26, 55 686, 85	-5196 3687	i. 47 7. 62	-61. 6	•	49, 39 -30, 66								
	` T16	TIS	Lab	Msb	Lic	Mic	Lh	d(Lh)	Ph.	4(1%)	Fz	4(*=)	Fy	4(Fy)
1	2, 503	-1, 396	1219.	6836.	6523.	8074. 10447.	3244. 5920.	170. 676.	\$302. 9740.	70. 1*1.	15	2. -1.	-91, -124,	2.
3	1. 042 1. 563 2, 295	-1. 166 -0. 793 -1. 525	6393. 6692. 5149.	9961. 12372. 8685.	10179. 8169.	12077.	5013. 3815.	-1151. 160#.	12259.	-1102. 1284.	19. 12. 33.	27. -17.	-170. -186. -121.	-1. 14. -22.
į	2 889 3 707	-1, 967 -2, 969	1754. -\$635.	3957. -5416.	360R. -6475.	5801. -1844.	936. -5241.	796. -425.	3167. -7325.	1975.	74.	11.	-74. 34.	-12.
7	2. 630 2. 108	-1. 431 -2. 424	2134.	4732. 5875.	3956.	6400. 7343.	1321.	-537. 272,	3994. 6888.	-711. 302.	174. 67. 75.	5. -17.	-73. -80.	ď,
10	1. 117 2. 610	-3, 362	-628R,	6435. 5798.	-6607. C076.	6938,	-7025. 3352.	-97. -1059.	2688. 5292.	145. -1372.	158.	3. 15.	-67. -76.	-1. 20.
11	2 758	-1. 127 -3. 251 0. 823	7338. 18753.	2719. 12251.	12237,	8525.	7054, 15008.	-818, 76%	9027, 13377.	11.	-18	•12.	-118. -188.	-2. -5.
\$1 G		4. 621	48773.	14451	2000).	7742	13776.	78 h.	.,,,,,	776.		12,	-147	11.
1403	POI ENT	PERIVATI	SOU BEA	79 CYCL	IC ATTLE	5 (3P CO	S COMPON	ENT)						
POH	1:4(0)	R01/2 t /	1(710)	ROWS : d(T)	LS)									
4	(Lh)	4(11)	1)	d(Fz)		(Fy)								
-4	222, 20 517, 45 52 6, 79	-10536 5157 4886	7. 17	-334, 24 104, 46 -62, 76	1	258, 03 162, 69 129, 42							•	
	Tie	713	Lsb	Pab	Lle	Me	Lh	4(LN)	Mh	4(19)	FR	4(Fx)	Fy	4(Fy)
1	2,503	-1. 344	-177L	-3672.	-3574.	-2715.	-975.	188,	-6091. -5036.	728.	38.	25.	77.	103.
3	1.563	-1.14F -0.790 -1.525	3524. 7023. 2527.	-5755. -9778. -4813.	1368. 3242.	-7384. -12814. -5583.	\$685.	2265. 1256. 5572.	-8454. -4471,	671. -2166. 1567.	-85. -171. -11.	-11. 9. -50.	87. 151. 70.	181. 257. 170.
5	1 293	-1, 967	-7025.	-3516.	-23. -2933.	-1575.	3851. -C187.	2616. -175.	-1389. -5790.	717.	72	-17.	70.	119.
7	5. 907 2. 630	-1, 631	-22584. -6056.	-2746. -3155.	-23734. -6002.	4J3f. -1033.	-2165#. -3176.	1360.	-3641.	1111	273.	1. 5.	57. 79.	119.
;	2. 108 1. 817	-2. 424 -3. 362	-7233. -11559.	-10900. -16475,	-11214. 1851n.	-1910. -19757.	-5211. -26211.	-9164.	-11329, -17268,	-29.	λη. 73,	-1. -1.	183. -1203.	•12. -805.
11	2, 610 2, 768	-1. 127 -0. 251	-1870. 4425.	-2385. 1273.	-2233. 5045.	-1465. 357.	-160A. 6169.	-1225. -2429.	-278°. 1676.	-191. -151.	. 37. - 37.	3n.	-25.	-18h.
12	2, 832	6, 823	12101	7292.	14975.	1423.	10827.	-4611.	\$552.	531.	-115.	-11.	-115.	-424
11 G	1A							3800.		195.		16.		315.
-				TO CYCL		5 (3P S)	H COMPONI	ENT)						
	L:4(0)	80H2 : 4		R013:4(T) 4(Fx)		(Fy)								
12	190, 87	24851	L 76	-137, 71	t -:	386, 79				•				
-55	138, 19 198, 83	-7619 6444		72 16 71 36	-	114. 99 109, 69								
*	TIC	T18	Lab	Msb	Lic	Mic	Lh	d(Lh)	I Th	4(1%)	FR	4(F2)	Fy	4(Fy)
1 2	2. 543 2. 642	-L 394 -L 146	2573. 4356.	-4337. - 11°L	1897. 3585.	-5839. 713,	32 41. 3821.	-80. -1246.	-1672. 2553.	-48A.	-51. -51.	-4. 21.	63. -44,	-22.
1	L 563	-0. 744 -1. 525	831A. 64A8.	5694. 324.	10364.	3370. -1066.	7135. 4176.	686. -933.	1609.	-128A. 3536.	-40	21.	-1 %. -21.	14. -65.
1	2. 889 3. 907	-1. 967 -2, 960	17*6. -2*08.	-0745. -25129.	-2011. -17636.	-11732. -26553,	3468.	71	-4443. -26683,	967. -631.	-79. -57	-19.	152.	-9.
į	2. 634 2. 104	-1. 631 -2. 424	1926.	-C594. -9457.	-470. 5426.	-8527. -13407.	1057.	-494. 285.	-560%. -771%.	78. -#85.	-81. -150. -750.	-17. 8.	48. 177.	11.
10	L 817	-3. 362 -1. 127	13729.	-13734. -3977.	2661. -867.	-1:374. -5020.	16040. 1681.	552. 70.	-10976. -3515.	-1274.	-42.	-1. -11.	285. 71.	16. 34.
11 12	2, 768	-0. 251 0. 823	-1687. -5955.	2328. 2904.	-819. -2209.	345 S. 1305 A.	-2033. -7802.	881. 97.	1830. 8513.	-325. -75.	45. 128.	ï	-32. -159.	2
\$10					"	,		60L		1245.		11.		24.

Table I. (Continued)

TES	7 15	CONT I HAVE	•							•	
			SMADIFI.	ATE BERI	VATI VES	BUE TO C	ACTIC	ANGLES			
			86 214	(4) m/2	:4(TC)	D/3:4(T8))				
			(3P e	OE COMPO	MENT)			(3P \$18	CONTONE	MT)	
			dilm) 4((Hep)			dilap) 40	Nep)	
•			-71	1.13 1.65 1.80	77.54 21 73.36			-82 -3 -51	. 85	263.19 -49.11 21.71	-
	TIC	TIS	Las	8(Lap)	Map	B(May)		Lap	B(Lep)	Non	B(Map)
1	1.50 1.54 1.54	2 -1.160 3790 5 -1.521	-17. -1.	-30. -47. 12.	-44. -38.	-ij:		-24. -46. -37.	1. 1. -26.	187. 167.	-4. ::
,	2, 81 3, 96 2, 63 2, 10			- 44	-170	-11. -19. -1.		3, 64, -24, 51,	-11:	19:	-15. 19. -21. -9.
11	1.81 2.61 2.76 2.76	7 -3.34 0 -1.12 025 125	-57. 1. 24. -31. -14.	13. 14.	-139. -21. 40.	37. -13. -10.		90. -61. -71. -116.	11. -15. 17. 6. -16. 16.	54. 52. 52.	-11.
816				25.	•	34.			16.		23.
нали	10M1C C	OHPOWENT:	is	14U9 H	CHENTS			1643 51	HEAR FOR	ce:	
	Tic	T18	MIC	ue	H+C	L+C	ATC	ESC	740	INC	
1	2.503 2.503		-3676. -6627.	-2324. 3516.	-415. -607.	1348. 953.	56.	50 -57	18		
i	1. 563			7632.	-649.						
2 3 6 7 8	2. 295	-1. 525	-A 171	2266	-117	1052. 1145.	69.	-114. -26. 115. 329. 74. 86. 139. 54. -34.			5,
•	3. 907	-1. 967 -2. 940	-3912. -3615	•737 1.	-651. -2175, -312. -569,	1302.	73.	115.	-1		7.
ï	2 630	-1. 631	-3513	43979. -2292	-317.	1206.	7%	727	0 - 2 13 - 726		i
ė	2. 108	-2. 424	-10761.	-6460.	-569,	1250.	171.	ii	13		ĩ.
•	1. 517	-3. 3f 2	-10031 -	ASRES.	-01>*	-6913.	-477.	134.	-726	-4	4.
10	2. 610		-2235.	-2158.	-554,	1857.	¥2.	54.	10.	-1	7.
11	2. 768		1854. 8277.	2570.	-17°.	1160.	-35. -120.	-132.	. 1	i	2.
4.6		4. 443		J#77.	9/3.	4437.	-750-	- 237,			~

Table I. (Continued)

AEL LERI	126 t • 62,6	.0CKED 61	780 HDQC - 34,0	WU - 2	.13 P	6,67								
1675	HOMENT	CERTANT	VES DIF	TO CYCLE	C AWILE	\$ (115.FE (corporent)						
REN/3	14(0)	R01/214	(T1C)	ROUS:4(T)	.5)									
41	Lh)	4(19	• >	d(Fx)	•	(fy)								
1	/96, 88 !71, 59 !73, 69	17701 -1961 2101	. 88	-28, 91 -6, 61 -36, 80	l	200, 29 23, 37 -19, 86								
	TIC	T18	Lsb	Rab	Lic	Ric	Lh	d(Lh)	Pth	4(194)	Fz	· 4(F1)	fy	d(Fy)
1 2 3 6 7 8 9 10	1. 862 1. 913 2. 589 1. 981 1. 276 1. 317 1. 271 2. 867 2. 673 1. 611 4. 622	-2. 227 -1. 281 -0. 891 -0. 379 -1. 659 -2. 761 -1. 596 -2. 675 -1. 758 -1. 339 -0. 779	3011 6377. 8370. 9090. 7010. 707. 4710. 2811. -1731. 8525. 8787.	5962 1291 11163, 12268, 9891, 3751, 7599, 6857, 58*0, 6243, 6524,	4691. 7312. 11676. 12676. 7463. 1797. 6843. 2111. -105. 7274. 105.95.	6939, 9273, 10771, 11953, 8934, 5189, 7955, 8124, 8156, 6470, 5848,	2269, 5086, 6916, 7593, 5925, 226, 3767, -526, -2666, 4751, 7985,	-58. -210. 629. -657. 1860. -527. -1078. 716. -656. 680.	\$928, 9293, 11329, 12379, 9154, 3118, 7437, 5692, 4288, 6138, 6809,	102. 204. 586. -646. 1379. -931. -678. -781. 357. -583. 193.	39, -1. -18, -12, -6, 57, 16, 91, 17, -26,	6, -7, 13, -23, 6, -9, 13, -4, 9,	-47, -117, -132, -135, -40, -45, -73, -43, -77, -72,	-1. -13. -16. 11. -7. 1. 7. 7. -2. 7.
\$1 Q	IA.							778.		615.		14.		7.
1873	INT SUIT	PERMY ST	IVES MIS	TO CYCL	c sru	'S (3P co	i coupou	raff \						
	1:4(0)			RMS14(T)										
4	(Lh)	4(19	• >	4(FE)	4	(Fy)								
-20	173.33 141.28 120.23	-3679 931 4060	L 33	-82, 13 29, 07 -10, 93	t	\$2, 87 -16, 59 -37, 36								٠
	TIC	T15	Lah	Psb	Lie	ric	Lh	4(Uh)	m	ं(१७५)	Fz	A(E =)	Fy	4(=y)
1 2 3 5 6 7 6 7 8 9 10 11 31 00 11	3.862 3.013 2.589 1.481 3.276 5.317 3.271 2.867 2.673 6.161 5.222	-2. 227 -1. 281 -0. 891 -0. 379 -1. 659 -2. 761 -1. 596 -2. 675 -1. 758 -1. 359 -0. 779	-871. -2130.	-73756377666726771057105781741137765542185.	-6776. -2372. -937, 3657. -7967. -2115. -6861. -2030. -3610.	-61205634643133925541352155491054723118388.	-0257275. 1320. 46111361136242242520451401038.	553. 253.	-792%, -0292, -6757, -2369, -11277, -4851, -11674, -16986, -2869,	1216. -522. -7886. 1016. 428. -473. 672. 228. -508. 753. -549.	59. 27. 9. -90. 39. 77. 25. 31. 31. 49. 83.	- 6. 6. - 8. 8. - 5. - 5. - 6. - 7.	77. 56. 63. 27. 53. 85. 50. 104. 151.	-6. 3. 18. -8. -11. -6. -12. -2. 10. 6. 7.
14/3	PERM	neel v <i>a</i> ti	VES MIT	TO CYCLI	e mote	5 (3P \$11	L COMPONI	THE						
37 11	114(8)	NOV2 1 1	(T10)	979314(T)	5)									
4	(Lh)	4(17)	1)	4(Fz)	4	(Fy)								
-1	746, 29 146, 87 144, 56	14584 -3563 2735	. 36	61, 19 -0, 27 38, 65		155, 44 34, 72 -36, 77								
	TIC	TIS	Lsh	Pah	Lle	r'ic	Lb	4(Uh)	170	4(191)	FE	4(FE)	**	4(Fy)
1 2 3 5 6 7 8 10	3. 262 3. 613 2. 549 1. 401 3. 276 5. 317 3. 271 2. 447 4. 673 6. 822	-2. 227 -1. 281 -6. 891 -0. 379 -1. 659 -2. 761 -1. 575 -3. 758 -1. 379 -4. 778	-266C. -3112. -3630. -3616. -2716. -2733. -1765. 153. 999. -6161. -5775.	-6371. 819. 3077. 7278. 653. -8757. -3576. -4637. -5666. -4855. -6062.	- 1217. - 2889. - 2789. - 1511. - 2576. - 5363. - 2529. - 619. - 6876.	-3304. 1257. 4229. 8440. 677. -3367. -3433. -5754. -7340. -4777. -3474.	-1674. -3208. -3713. -4257. -2276. -1487. -1256. -1256. -3751. -3618.	144. -258. -316. -343. -325. -626. 1319. -419. -6.	-43"8. 625. 25R7. C7R1. 554. -4576. -1874. -4816. -4816.	#71. 279. -\\$5. 271. 2172. -?11. -1812. -977. -086. 386.	3. 18. 46. 4. -22. -5. -51. 21.	19. 1. 16. -1. 6. 13. -24. -2. -11. -14.	71, -9, -26, -72, -6, 97, 33, 69, 83, 37, 32,	17. -6. 0. -3. -26. 1. 19. -10. -6.
\$100	1.5							560.	-	1979.		12,		11.

Table I. (Continued)

TES	7 16	CONT 1 HOE	•								
			SIGNSHA	LATE BERI	VATI VES	QUE TO (TCLIC.	AMELES			
			mr1:	(4) Mr2	:4(TC)	Mar3 : d (TS	•				
			(3 P (2	os compon	ENT)			(3P \$18	COMPONE	MT)	
			dila) 40	Hop)			d(Lap)	dCM)	
			-17 6 -21	1.59	379.87 70.26 74.67			25. 82. 20.	01 -1	N.59 17.44 DL.86	
	TIE	TIS .	Lap	B(Lap)	Hae	D(Map)		Lap	B(Lap)	Pap	9(1449)
1 2 3 5 6 7 8 10 10	3,882 3,013 2,589 1,901 3,276 6,317 3,271 2,847 2,673 4,161 6,622	-1,201 -,891 -,379 -1,659 -2,741 -1,596 -2,675 -3,758 -1,330	427. 147. 143. 44. 356. 356. 321. 804. 242.	-101. -39.	211. 610. 510. 577. 651. 610. 650. 201.	-276. 116. 23. -167. 91. -22. 127. 76. -32.		20. 309. 196. 93. 289. 365. 361. 289. 186. 413.	-276, 63, -24, -281, 30, -12, 190, 88, 19, 76,	-469. -88. -18. 52. -348. -496. -348. -478. -433. -390.	55. 122. 51. -65. -23. -1. -30. -19. -46. -19.
810	**			47.		116.			102.		52.
MAR	HOMIC C	QHPQKEXIT E	i.	HUB H	DHENTS			HUS SH	LAR FORCE	:8	
	TIC	718	MZC	LIE	Mic	Lie	44C	120	746	MC	
3 6 7 8	3, 862 3, 013 2, 589 1, 981 3, 276 4, 317 3, 271 2, 867 2, 673	-2, 227 -1, 281 -8, 891 -0, 379 -1, 659 -2, 741 -1, 506 -2, 675 -3, 752	-1697. -1523. -465. -2086. -670°. -2572. -6186.	175. 19%%. 5686. -%0%. -670%. -1870. -2390.	-4794. -4905. -5237. -32375. -4862. -6569. -3257. -5491.	70. -831. -624. -1075. -957. 1820. 1877. 1864.	54. 19. 4. -10. 22. 53. 27. 81. 119.	61. 9. -8, -52. 17. 87. 30. 41.	37. 37. 36. 37. 32. 25. 28.	-19, 18, 17, 24, 22, -10, -5, -1,	
10	L 161	-1. 339	-573.	-3414.	-1323.	1173.	19.	33.	11.	٩,	

Table I. (Continued)

TE	ST 17 (HODE						•			•		
	T - 81.0	7 RPN	- 197.2	183 - (1.48 P	- 1.35								
. 18	m noneut	DERIVAT	IAEZ DII				COMPOSES	7)						
	M1:d(0)	R01/2 (4(T1C)	ROU3:d(T	LS)									
	4(Lb)	d(H	h)	d(Fz)	•	(Fy)								
1	8269, 26 8368, 76 6425, 69	4639 -1596 1118	5, 57	89, 79 -47, 9 -156, 4		245. 87 139, 91 22, 20		•						
٠,	T10	718	Lab	Hab	Lle	Fic	LN	4(Lh)	194	4(Ph)	FR	4(Fg)	Fy	4(Fy)
	8, 177 1, 573 3, 580 1, 570 2, 086	-1. 201 -1. 198 -1. 399 -1. 062 -0. 865 -1. 195 -2. 453 -3. 248	1788. -7288. -18177. 1862. 20158. 2580. -13679. -26178.	-21506	4088. -200. -1673. 6465. 18686. 574C. -15474.	6233. 22660. 35877. 6057. -21896. 6628. -4871. -2978.	658. -10375. -13707. ?686. 20791. 1156. -12713.	-1301. -2812. -675. -2454. -2864. -606. 1674. 3235.	-578, 18875, 23840, -717, -25846, 557, -18128, -26477,	-1854, 004, 1754, 777P, 818, 1677, 7271, 1057,	198. 303. 334. 128. 119. 159. 448.	-19, 65, 36, 17, 57, -17, -19,	-75, -783, -330, -104, 51, -127, 71, 75,	-67. -75. -87. -70. -177. -75. 70.
; 10 11	1, 473	-1. 178 -0. 197	3276. 19397. 30310.	1674. 12645.	5939. 2817.	5738. 13201.	7923. 26813.	-756. 751°. 1897.	-175. 12421.	-1260, -674, 6086,	164. 21. -58.	-77. -8. -11.	-82. 675. -281.	-15.
ii	1. 762	-L 169	3027.	245#E. -607.	37333. 5633.	2313#. 363#.	1905.	-1878.	25211. -747f.	-1679.	170.	-14.	-781.	-741. -71.
81	391.5							2709.		1926.		24.		774.
. 48	A NAMERL	NER14 / T	YES MIE	TO CYCL	e Piets	9 (3P CO	G COMPON	ENT)						
	M1:4(0)	RP 12 :	((T1C)	RM3+d(T)	15)									
	1(Lh)	4(17	1)	d(Fx)	4	(Fy)								
	5082. 11 4743. 96 1620. 25	-1510 -1571 -1881	. 91	438, 41 -322, 21 \$, 21		510, 45 274, 62 150, 68								
н	TIC	T18	Lab	nab	Lie	nic	Lh	4(Us)	196	4(1%)	FE	4(Ft)	fy	4(54)
10	2, 461 2, 177 1, 673 3, 580 1, 570 2, 086 1, 973 1, 658 1, 424	-1. 201 -1. 198 -1. 379 -1. 042 -3. 825 -1. 195 -2. 653 -3. 266 -1. 128 -0. 107 0. 312 -1. 169	4013. 2075. 131. 3038. 7331. 3961. 4254. 4254. 3712. 2854. 3619.	277. 3976. 2169. -870. -120. -802. 1667. 6769. -3643. -5611. -757.	1326. 4422. 4561. -1277. -7666. 1763. 13571. 330. 1186. 817. 16267. -323.	-1799. 10272. 18872. -2647. -3930. -4463. 1200. -3739. -5511. -3784.	5196. 1331. -1471. 16374. 6916. 12100. 5837. 6923. 5750. -2236. 6340.	392. 1703. 116. 92. 837. 301. 2971. -5889. -95. 513.	1179. 1237. 3623. 59. -5557. 566. 5059. 9177. 1116. -1926. -5651.	174. -1228. -234. -115. -254. -254. -271. 998. 715. -231. -231.	-87, 257, 270, -780, -120, -272, -137, -127, -121,	2. - 76. 55. 26. - 50. - 79. - 79. - 79. - 25. 16.	197. -94. -177. 174. 692. 97. 713. 154. 174. 81. -573.	-b. 1^9. 7b. 69. 761b. 24136715. 171367.
81	G 13							1971.	•	963,		29.		181.
٠,	B IVATENT	PERIVATI	AES WIE	TO CYCLE	C AISLE	5 (3P 81	N COMPON	ENT)						
RE	111:4(9)	RO-12 t	(710)	AM:13:4(T)	(\$)									
	4(Lh)	4(19)	4(Fx)	4	(Fy)				•				
•	9597.70 2996.01 6871.88	-9251 5511 -3640	. 40	-592, 60 122, 30 -319, 21		345, 90 128, 59 228, 32								
Ħ	TIC	715	tsh	"sh	1.10	Me	Lh	1(Lh)	PTN.	e(im)	Fx	A(# E)	**	4(Fy)
10 11 11 11	0, 177 1, 473 3, 586 1, 570 2, 086 1, 975 1, 673	-L 201 -1. 148 -1. 340 -1. 04* -0. 885 -1. 175 -2. 453 -3. 244 -1. 122 -0. 107 0. 312 -1. 169	24. 217h. 238h. 128. -17%. -271. -2286. -87h. -211. 1301. 6665. 397.	5014, -3554, -5276, 3948, 16987, 6149, 12478, 22178, 4781, -781, -12978, 4533,	\$114. 774. 515. 2791. 4020. 4181. 2229. 13032. 2879. 1124. -59. 4426.	6759. -9185. -11325. 3945. 1992. 1010. 20813. 39896. 5225. -5317. -31058. 6682.	-2218. 300f. 325F104653472039C700127611562. 1582. 1574.	-1155. (26. 758. -55b. 1377. -1163. 1690. -620. -662. -2777. 2482. -8.	2268, -1572, -7676, 7612, 1677%, 8226, 822%, 822%, 16357, 3576, 615, -6075, 6172,	725. 799. 51F. 134. 1297. 1084. -754. -557. -1997. -1084.	#4. -714. -247. 0. 114. 544. 774. -124. -787.	47, -59, -179, 55, -179, 177, -112, 23, 107, 274, -751, 19,	-206. 52. 73. -174. -235. -176. -500. -716. -123. 8. 261. -161.	-69, be, 71, 1, 87, -65, 67, -27, -101, 27, -18,
٠.														

Table I. (Continued)

185	ב. ענו	-	,									
			SMA SH	LATE DE	RIVATIV	res Du	JE TO C1	rcLIC	ANGLES			
			BM1:	4(8) R	12:4(TC) 854	3:4(75)					
			(3P (:06 COMP	quignt)				(3P &II	COMPONE	wt)	
			dlla	, دس	d(Map)				d(Lap)	d(Na	.)	
			-	4.81 2.88 4a23	31.2 16.6 18.4	5			-02.)\$ -ž	4.75	
	TIE	T18	Log	O(L	19) M	10	0(Msp))	Lsø	O(Lsp)	Non	0(Map)
1	1,606	-1,198		9.)). 12.	: :	-29. -7.		28.	53. 10.	29. 34.	65. 40.
3	1,673	-1.399	-3 -1		:	-18. 15.	-26. -22.		-13. -48.	-52. -18.	-34.	°i.
•	3.589	665			ı ė .		- 1		-141.	-31.		24.
3	1.570	-1.195				352.	320,		-168.	-42.	-149.	-114.
7	2.684	-2.453	-8		le.	٠.	-12.		-74.	~18.		-31.
•		-3.268	-16	• -	18.	-11.	-19,		1.	38.	-139.	<u>?</u> .
1	1.673		- :	: -		-44.	-33. -36.		-47.	-17.	-38. -8.	-3. -23.
ii	1.424		~;		11.				37.	16. 46.	36.	-6.
ii	1.762	-1.169		3	15.	-5.	-40.		-22.	12.	71.	·i:
519	MA .						186,			12.		63,
HAR	-	MPGKENT!	Ba .	HUZ	HOMENT	rs			NJ8 51	EAR FORCE	ES.	
	TIC	TLS	ME	LZC	mc		L+C	A4C	X4C	74C	INC	
1	1. 606	-1. 201	1795.	672A.	-521	١.	b74.	19.	-143.	18.	66	
2	8. 461	-1. 198	-88A.	-231.			1271.	60.				
•	0. 177			-2313.			392.	32.				
3	3, 580	-1. 6\2 -0. 845	351.	16930.			525. -42.	341.			-233	
•	1. 574	-1. 195	1320.	4501.			16.	-14.				
ï	2. 484	-1.455	Shan.	12444.		i. 1	1661.	190.			92	
ā		-3. 248	10975.	10107.	-1786	1	257.	-277.	-169.	437,	247.	
•	3. 473		1342.	1284.	-225		680.	15.	-129.			
10		-8, 107	-1664.		. 79		1567.	107.	-57.	-71.	-46	
11	1. 626	0. 312	-7676.	-3151.	1841		714.	108.		-561.		
•••												

Table I. (Continued)

TES	T 14 (FREE GYR	3004					•						
	- 41.	-	- 154.6			• 1.53								
						S (NEPI	Careditta	r)						
	114(4)			101 /3:4(T										
_	(Lh)	4(12		4(FE)		(Fy)								
-	739, 06 <u>446, 65</u> 636, 65	36764 11373 7264	1, 47 L 11 L 89	61.7 -25.4 -104.0		373, 42 36, 22 -59, 67								
	TIC	T18	Leb	Itab	Lle	Mic	Ĺħ	4(Lh)	Mh	d(1m)	**	4(22)	Fy	4(24)
1 2 3 6 7 0 10 11 12 13	L 917 Q 490 -Q 603 L 858 L 130 L 971 L 904 L 952 L 910 L 913 L 911 L 451	-1, 377 -1, 397 -1, 397 -1, 592 -1, 678 -6, 590 -1, 682 -1, 583 -1, 710 -1, 685 0, 684	2824. -3927. -3341. 10476. 17216. 12072. 13072. -12275. -21774. 19723.	3679. 20069. 20069. 5036. -6671. -15390. -10216. 4952. -9725. 3275. 135302.	3380, 2039, 3109, 4581, 11199, 15998, 4765, 12936, 4457, -11757, -22678, 25318, 34252,	26032. 33167. 8288. -4233. -13785. -6114. 9133. 1951. 88. 7767.	1703. -2660. -7621. 1114. 10151. 17078. 13152. -813. -12438. -21330. -474. 16670.	635. -1676. -1856. 526. -1535. 1167. -1677. 326. -1145. 1546. 160.	1727, 17407, 24745, 3535, -7451, -15787, 11776, -8078, -8078, -14745, 1274, 13517, 25971,	-779, -1118, -57, 1135, 1736, -1644, 166, -206, 2057, -538, -1924, 1046, 277, -778,	159, 261, 273, 150, 90, 61, 175, 84, 164, 276, 393, 187,	- b. 62 5	-191. -291. -296. -29. -29. -195. -10. -10. -71. -261.	5. 2. 0. -21. 16. -2. 6. -85. 21. e. -25.
\$10					·, -4			1205.		1151.		25.	_	17.
				TA CV61			S COMPON							
	1 (d(0)			107 CV:.C		. 137 (0	is corrow	Emi /						
	(Lh)	4(13		4(Fz)		(\$y)								
-5	545, 80 331, 37 264, 33	-\$149 3100 -4101	1. 45	171.46 -194.50 -19.00		717. 60 314. 53 372. 38								
	TIC	T18	Lab	Msh	Lle	MIC	Lh	4(Lh)	17%	4(19h)	· FR	4(FE)	Fy	d(Fy)
1 2 3 6 7 8 9 10 11 12 13 14	1. 410 1. 913 1. 991 1. 431	-1.377 -1.397 -1.592 -1.078 -0.592 -1.497 -0.742 -1.533 -1.710 -3.371 -1.625 0.755	#967. -63. -6175. 6277. 18974. 22367. 2356. 20368. 7773. 18515. 17738. 2373. -3866.	##0. -50%. -150%. -259. 1237. 1313. 1302. 1302. 1307. -3773. -4074.	20413. 3302. 1302. 131292. 416507. 416607. 45753. 202417.	-1923, 2814, 3814, -1180, -6818, -10361, -6518, 280, G&15, 7932, 10374, -11314,	392115173883. 3276. 10239. 10705. 3780. 31089. 6170. 6100. 5662. 3061. 6570. 3263.	-671. 278. 22. -966. 611. 265. -526. -92. -160. 1620. -1256. 93C.	2115. -1967. -1967. 3534. 278b. 63b7. 1757. 4807. 1751. 16687. 5397. -2349.	-336. -70. 133. 290. -7213. -752. 212. -757. 712. -6. 1674. -674.	-112. 137. -141. -787. -476. -416. -77. -117. -171. -171.	-16. -17. -17. -17. -17. -17. -17. -17. -17	-6581461462765775778447771547718177. 681.	-69. -177. -28. 195. 177. -69. -69. -291. 153. -69. 28. 16. 17.
WR	TL3:40M	neriy <i>a</i> ti	VES MIS	-	e mare	5 (3P S)	-	ent)						
Aryer.	114(0)	POL2:4	(710)	R01318(T1	\$)									
4	(FP)	4(Mh)	d(F=)	•	(Fy)								
-31	739. 05 147. 12 341, 75	-4538 4052 834	.36	-317.35 98.15 -142.93	-	614, 89 636, 27 -36, 50								
•	T1C	T18	Lab	lisb	Lic	Mc	Lh	4(Lh)	m	4(III)	•	4(**)	Fy	1(Fy)
1 2 3 4 5 7 8 10 11 12 13 14	1. 917 0. 690 -0. 003 1. 008 3. 073 1. 006 3. 665 1. 010 1. 952 1. 017 1. 017 1. 021 1. 031	-1, 377 -1, 397 -1, 306 -1, 507 -1, 676 -1, 508 -1, 742 -1, 783 -1, 685 0, 659	-659. -6797. -73787. -73787. -7895. -15957. -11847. -15378. -2378.	29352 -7252 -72282 -728	475 n. -221 R n. -27 n n n. -25 n n n. -27 n n. -27 n n. -27 n n. -17 n n. -17 n n. -17 n n. -17 n n. -16 n n. -20 n n.		- 1013. 6910. - 5318. - 45191. - 52512. - 2612. - 2812. - 2812. - 2812. - 2812. - 2812.	1632. -158. -537. 2326. -2526. -2526. -2526. -1527. -1217. -1217. -1217. -1217. -1217.	2786. -6756. -6756. 1000. 7120. 10627. 4324. 1212. 1797. 1200. 1400. 3362. 3775.	274. -1077. -193. -765. -5. -620. -498. -434. -723. 1547. 172. 206. 1732.	F1. -18. -107. 112. -95. 171. 106. 187. 283. 371. 127. -176. -282.	-7. 51. 20. 1767. 27. 50. 505878. 1778.	-218. 675. 872. -375. -375. -796. -57. -1128. 149. -575.	-67. 141. 175. 175. -40. 170. 154. 1901. 761. -157. -207.
	-													

Table I. (Continued)

TEST	••	CONT	

			SMASHPL	ATE DERI	44T14E8	DUE TO (TELIC	AMELES			
			M/1:	4(8) for	E:d(TC)	M3:4(T	_				
			(32 (:04 COMPO	ment)			(3P SIN	COMPONE	HT)	
			ditos) 4	(Htp)			d(Lsp)	d(H	20)	
			-41	.31	0.71 21.62 28.23			· -33. 16. -) <u>1</u> .	20 -	5.62 10.20 12.37	
	TIC	T18	Lap	B(Lse) Map	B(Map)	Loo	B(Lap)	Nsp	D(Map)
1	1.917	-1.377 -1.397	-75 VS	. 15				77. 42.	32. 19.	-8. -25.	25. -5.
3	003	-1.306	28.				•	-34.	-50.	-10.	-30.
3	1.619 3.130	-1.592 -1.078	-10 -27		. 34. . 89.			28.	-24.	-37.	
•	3. 471	-, 500	-149					17. 39.	-34.	-17.	15. -32,
7	1.900	-1.498	-50					52.	-10. 3.	-39.	-1.
	3.445	-,742	-25.		60.	-12.		60.	12.	-24.	-1.
	1.530	-1.583	-33.					138:	-11:	:}}:	13:
10	1.952	-2.710 -3.391	-23. -48.			-30		130.	38.		15.
11	1.919	-1:685	-38			29.		127.	13.	-160. -27.	-22. 18.
ij	iiiii	7.068	-20					-21.	-10. -16.	-:;:	-37.
10	1.431	. 959	17.	. 12.	. 52.	-1,		72.	45.	101.	ii.
816	MA.			23.	•	16.			27.		22.
HAR	MONIC 60	PER SHOPE	i.	HUS I	MONENTS			HU9 1	HEAR FOR	CES	
	Tic	T18	M2 C	LZ¢	Mc	Lec	¥2¢	T3C	Y+C	IAC	
1	1. 717	-1. 377	2574.	3015.	-459.	127.	-259.	-164	199.	. 12	
i	0. 490	+L 397	-1331.	-3135.	-635.	1617.	-5A.	311			
3	-0.003	-1. 346	-2730.	-4959.	-940.	1074.	157.	429	. 50	-371	
•	1, 888	-1, 512	4425.	2132.	-230.	1132.	-173.	-63			
5	3. 130	-1.078	3646,	8659.	-862.	1479.	-313.	-131			
ş	3. 971 1. 904	-0.500 -1.498	5664. 2739.	12175. 2386.	-317. -373.	156°. 1394.	-474. -313.	-425 -68			
í	3. 445	-0.742	5530.	1736.	-722.	1353.	-512.	-510			
•	1. 416	-L 513	2120.	2671.	-428.	1477.	-114.	-16			
10	1. 152	-2.710	16530.	2949,	-7790.	1152.	-601.	-597	-145	532	
11	1. 710	-3, 391	11642.	3672.	-954.	1780.	-709.	36			
12	1. 913	-1. 685	\$331,	2423.	_64.	619.	-372.	-58,			
13	1. 891	0.068	-2650.	1009.	320.	661.	150.	-250		199	

Table I. (Continued)

· TEST 10	OCKED GYNO HODE	ı											
VET = 29,88 APR = 177,7 Mi = 6,65 F = 1,41													
HUS HOMENT	DERIVATIVES DUE	TO CYCLIC ANGLES	CHEAN COMPONE	HT)									
RDW2:4(8)	NGW2:d(T10)	ROV3:4(715)											
4(Lh)	d(19h)		fy)										
-261.67 6753.60 18755.65	47990.15 -17882.00 18772.28	-7.17 -0 -13.75 3 -186.82 -2	75.61 21.55 05 .23										
₩ T3¢	T18 Lab	Hob Lic	M14 Lh	4(Lh)	Mh d(M)		4(FE) Fy	4(Py)					
1 1.078 2 1.513 3 .362 4 1.075 5 3.183 6 3.571 7 2.220 8 2.626 9 2.189 16 1.722 11 1.268 12 2.000	-1.238 7701.002 -3653,891 25761.656 -16661.918 -22521.186 13991.186 24902.489 76761.106 3356925 abal317 12346199 20083.	36889, 14961, 2008, 2603, -29485, -4693, -28653, -5695, -1142, -4756, -967, 4651, 8667, 11986, 11563, 21475,	95501365 165536008 665266409 79865513 -12735. 5813 2026. 1200 -66926467 3390. 1999 12563. 1546 12662. 2609	-980 324 1185 -92 296 -905 -461 1620 756 -819	239m, 131 6202, -796 5202, 409 55702, 409 641, 4100 -2675m, 1763 -11840, 1261 -4415, -173 -16261, -5245 -2805, 683 693h, -1021 151607, 1028	230. 166. 204. 204. 100. 100. 172. 172. 155.	1197. -4226. 29679. -71170. 27. 356. 2. 255. 7116. 58. 41. -36113. 2267. 9345. -6446.	9, 32, -26, -72, 34, -45, 20, 16, -1, 20,					
SIGMA				816.	. 1921	•	28.	32.					
HOW2:4(0)	ROV2:4(T1C)			MENT)									
4(Lh)	d(Mh)		fy)										
-9250.63 9222.66 -331.99	-5397.74 -864.32 -7116.02	-455.48 5	81.75 48.64 -7,10										
B 710	TIS Lab	Hsb Lic	Mic Lh		Mh d(Mh		d(Tx) By	d(Fy)					
1 1.000 2 1.513 5 .362 6 1.976 5 3.103 6 3.571 7 2.210 8 2.620 9 2.120 10 1.722 11 1.050 12 2.000	-1.236 23711.002 1382891 -251.655 22611.912 55501.865 117451.184 20112.669 71671.105 3700883 3678317 5429.	3374. 10169. -400212593. -915727553. -965922557. -220019005. -7122857. -10033863. -73187019.	-42702. 26324 -15722. 11270 -96744. 13648	. 1166. - 1166. - 613. - 613. - 2017. - 194. - 1918. - 1778.	2088. 312 2025803 -371656 21666 5622871 5035. 2065 8185. 2156 1784. 1667 -5274538	-227, 340, -366, -1251, -1372, -524, -441, -440, -334, -185,	93. 542. 35. 346. -47448. 178. 604. -7. 1326. -7. 151. -115. 574. 186. 186. -9. 282. -92. 453. 17. 484.	125. 87. -29. -47. 104. -65. 106. -180. -280. -27. 13.					
SIEMA		1,000	-11111, 040,	1015.	1788		17.	136,					
PUB HENTEUT BOWLIAGO		TH CYCLIC SMILES	(3P SEN COMPO	DIENT)	-	•		•					
4(Lh)		#(Fa)	4(Fy)										
13857. -4479. 8212.	.10 9202.34	-49.64 -130.72 -228.34	766.62 -266.38 592.62										
	10 714	Lab Mab Li	le Mle	th 40	Lh) M ((·m) ==	4(*=)	Ty _ 4(Fy)					
2 1. 3 - 4 1. 5 3. 6 3. 7 2. 8 2. 9 2. 19 1.	5131, bn2 362 -, 641 3- 974 -1, 8541 183 -1, 919 -3 571 -1, 875 -4 226 -1, 164 -1 626 -2, 669 45; 106 -1, 3741 772 -, 985 -2; 866 -317 11	114. 11714. 164: 635. 6362. 114: 635. 6362. 114: 6361670276 604. 1587. 637 704. 21734. 237 704. 21734. 237 704. 21734. 237 704. 21746. 161 707. 5177. 547 704. 1041 707. 1041 707. 1041 707. 1041 707. 1041 707. 1041	37. 7688 9016936 10. 7206 15. 23208 11. 12093 12. 12613 12. 12037 13. 6880 111597.	4058. <u>53</u> 1 785390 7124. 111 960129 ⁴ 5161. +80 7709. +29 8685290	95. 6071 178071 191051 101. 29770 13. 20277 17. 10522 18. 16507 17. 5120 18. 16221	7738, 49 451, 30 7407, -187 1944, -58 1970, 6 1978, -199 1972, 59 1972, 54 447, 64 114, -284 3778, -444	184 -187. 1 -792 -2819 -2811 -937 -628 -1626	152197. 157. 24. 1606. 766. 126. 795119. 20. 117. 00209. 54217. 6191. 1551. 6650. 16. 167.					
KARPON I	C COMPONENTS:	NUR HONE	rts.	HAVE	SHEAR FORCES								
H . T2	•	te Lie me	: LAC 1	72¢ 12¢		•6	٠.						
3 1. 3 3. 4 3. 7 2. 9 2.	313 - 1.692 3: 922691 - 3: 924 - 1.654 2: 125 - 1.912 11: 573 - 1.474 11: 120 - 1.184 6: 120 - 2.689 11: 121685 3: 122685 3: 12471: -71:	152, 10078, -201 179, 5659, -8 107, -6693, 25 103, 9790, -22 101, 21551, -661 101, 2257, -618 172, 12376, -372 163, 1597, -304 172, 12376, -177 172, 1727, -156 161, 15011, -127	6616, 5. 2178, 6. 187, 71618, 8188, 81886, 8386, 8386,	27167 15273 154. 29 33473 859127 859127 639137 64085 16492 3595 669. 22	in. 191. in241. in241. 2. 275. 3. 645. 4. 648. 4. 648. 4. 190. 6. 139. 6. 44.	176. 193. 59. -15. 22. -00. 99. 111. -18. 176.	·						

Table I. (Continued)

	TEST VKT	- 4 9		9 67 30 -		- 1,67	P = 2.	.31							
					PUT TH C		MALES (M	An Corpo	1797)			-			
		14(8) Lh)		972 : 4(T): 4(Pb)	C) 974/3: 4(F		4(Fy)								
	70	 14.71	. ,	3917.31	-1	- · 5 . 99	-678.7	•							
	53	3.03 13.15	•	7029.25 5364.17	-1	1.13	117.7 -98.6	4 0							
		.212			راد خ <i>م</i> ا		de P	ie .		.	~ 4	•1		., .	, -1(*)
	1	2.170	-1.	728 8	101. 116 167. 181	45. 17 49. 18	740. 131 726. 180	69. 29 59. 36	ii. i		06136 18. 51		9. 1	227 241 347	: :
	1	1.101 2.12 2.15	- '	197 161	171. 228 134. 114	73. 21 19. 12	189. Z30		88L	88. 216 77. 197	1589 17169	9. 1). ?	347 -31	
	į	2.361	-1.0	193 21	713. 781		47. 48	75. 2	51. 9	EQ. 69	9418	7 1	•	522! L11!	3. 1
	•	1.924 1.616 1.384	-1. -1.	733 3 174 -6	90. 150 86. 151 98. 182	2. 67	20. 166 47. 180	0233 5h67	75.	79. 115 -0. 126	59, -24 11 ht	9. 16	1	7931 7901	-29
:		1.950	-1.	148 33 199 70 199 131	41. 144 17. 154 17. 160	18. IS	57. 169 38. 157 58. 169	44. 130 46. 331 72. 77	15. 1919 153	19. 167 11. 155 18. 155	70. 27	1. ·		-58 -191	
	 E1 0 V				••••					e7.	J		1		25
mid	MO=		ei vat	IVES BU	t TO CYC	IC AMEL	ES (3P C	08 COMPG	MENT)						
	B:df				mov3:d(T										
-	(+h)		d(m		d(Fa)		e(Py)								
-10	337. 811. 461.	!\$!\$	-3674 1515 113	7,6¶ 1.05	-75 f. f 21 J. 2 -22 f. 5		113.36								
												_			
•	2.1		T18	14b	. Pab	Lie Lie		lh bloš.	đ(lh) 327.		d(*h) -286.	f. -45.	4(Fa) 7.	fy 218.	4(Fy) 61.
į	1:	10 2 10 1	788	7900 12758.	-8768. -18765. -28655. -8182.	-617 397	-5562. -26534. -37806.	11461. 18192.	-1716.	-8205. -16205. -24316. -0035. -7375.	156. -657.	-731. -174.	: i.	341. 651. 1151.	-11. -11.
ì				1247.	-85b7.	-6630 -2533 -21133	-133	2516.	-2039. 1465. -2471.	-0015. -7175. -3803. -12140.	-457. 674. 649. -1172,	-\$1.	-35. 35.	151. 79.	-111. -111.
į	1.	124 -	1.015	2001. -2606. -4584.	-1 19 86	-44 74	-116614	1040	-293. 1076.	-12140. -16415.	-116. 971. -731. 709.	174. -16. 12.	-3. -10.	79. 250. 262.	1.
10	1.	50 -	2.178 1.168 510	2480.	-22970. -12080. -10412.	-16587. -3296.	-16355. -23424. -16562. -15015.	184. 1901. 1594.	111.	-16413. -23196. -10602.	-731. 709. 442.	-115. -186.	-1. -47. -10.	228. 192.	-25. -1.
12	2.4	06	.050	12604	-6573.	11155	-15525.	15255.	\$30. 961.	-8377. -3564.		-270.	-12.	· 51.	-3.
\$10									1302.		656.		26.		15.
					E TH CYCL		ES (3P 8)	и сомрон	ENT)						
	214() (Lb)	"	4(15		ROWS:d(T d(Fa))	•	1(Fy)								
-					-854.5		-651.22								
-1	853. 394. 648.	3	3678 -1114 1151	5.53	318.50 17.79	•	254.55 245.10								
	T 1	ıc	I18	Lab	Meh	Lle	Me	Lh	4(Lh)	-	4(IM)	r _k	d(*a)	ty	4(Fy)
1 2	1.1	22	1.010	9794. 16052.	6131.	9455. 24577.	+2887.	15136.	1111.	1678.	771. 143.	-213. -151.	•33. \$.	-4. -141.	\$1. -13.
3	2.1		527 1.860	28319. 8377.	11656.	32396. 8071. 9371.	-1111.	26296. 4636.	1411.	17169.	-11AK.	-514. -193. -174.	13.	-591. 19. -11. 197. -86.	50. 59.
5	2.5	61 - 26 -	1.19x 1.443 1.9#5	*141. 2147. 19377.	-11333.	-2791.	-129RR.	8976. 4303. 12621.	181. 1089. 663.	-1044F.	2166. -1669. 369.		-11.	-11. 197.	72.
	1.1	14 -	1 411	15/52. 23866.	-6255. -7978.	152AE	-15246.	15574. 22786.	-1743. 960.	-1771.	1193.	- १९१. - १९१. - ६९१.	-15.	-24	7. -15. -37.
ij		50 - 70 86	2.178 1.168 - 598	1212°.	.705.	14744.	-6216. 251. 8926.	10943. 7713. 2778.	-1218. -323.	1904. 6454.	-757 1677	-217. -178. -19.	37. 28. -11.	-110. -105. -510.	-66. -16. -56.
£10		•••	•••					••••	967.		1564.		n.	-20-4	34.
-	40411	come	OMENT!	t.	-	MBMENT:	L.		1618 AM	LAR FORC	94				
	710		T15	MZC	L2¢	M.C	l-c	720	N1C	746	X4C				
1	2.1	82	1.418	-8712. -15673.	2912. 18837.	500	1237. 824.	215. 347.	-28. -216.	3. -5.	-21. 15.				
į	1:1	23 -	1.060	-15673. -25263. -8265.	-633.	-536 -57 170	1617.	505. 206.	-342. -31.	•11. 13.	- 7 .				
ļ	2.1	4i -	1.198	-8476. -4851. -17781.	2013, -9117,	500. 250. 340.	981.	164. 78. 278.	-11. 185. -91.	-12. -10.	-10. -11. -5.				
į	1.3	14 -	1.235	-15995. -27991. -10853.	-219.	-62A. -205. 50.	2002.	376. 495.	-?. -1.	16.	23.				
11	2.0	70 .	590	-8845.	9251. 6126.	-332.	1657. 1679.	222. 165.	-113. -190.	7.	551				
17	2.4			-4053.	12464.	-6244.	376.	. 78.	243.	-21.	₩¥.				

Table I. (Continued)

		COCKED G					•							
	T 21 - 89.		• 61.6			- 2.46								
4	1:4(0)			TO CYCLI		S (PEAR	Custadia d	r)						
4	(Lh)	404		4(fa)		(Fy)								
10	141.19	3479 -570	1.00	-51.25	-	572.76								
5	883.77 531.68	580	2.77	-101.01	i -	76.04 184.85								
	TIC	738	Lab	Male	Lle	Mic	Lh	4(Lb)	19	4(1%)	**	4(Fg)	Py	4(8y)
1	1.863 2.133	-1.961 -1.405 873 -1.752 -2.262	3517. 6351.	7603. 13896.	4242.	111°6. 18703.	2387.	186. -1262.	4815.	-1818. 169.	144.	::	-109,	40. -14.
3	1.388	+ 873 -1.752	10715 6187 1365		13289. 19544. 8698.	23986. 1280h	3290. 6817. 2190.	-23. -1037.	20367,	-1667. -1316.	112. 75. 186. 197.	26. 67. 16.	-270. -333. -181.	23. -5.
5	1.347	-2,262 -2,617	1345	-1775.	3134.	9038.	2190. 556. -1969.	-461.	1890.	-648. -867.	147. 244. 67.		•77.	10. 8. -17.
?	3.934 2.733 2.576	-7.767 -2.617 -1.555 -2.543	8290 -996	12860.	13773.	15534.	-2309.	1613. -780.	12111. 4207.	-282	295.	-17.	39. -119. -119.	6.
10	2.254 2.604 2.821	-3.182 -1.874 -1.829	-3043. 3038. 10200.	14489.	-623. 9501. 16635.	15784. 15124.	-4107. 3068. 7358.	952. 691. 115.	5381. 8876. 13860.	1790. -199. 921.	249. 19#:	-31. -6. -15.	-97. -179. -257.	•17.
12	3.297	622	13243.	13192.	20463.	13042.	10229.	313.	13250	145.	-4.	·71.	-273.	-16.
£1 @	MA.							662.		1444.		26.		18.
				TO CYCLI		1 (3P ca	S COMPOND	HT)						
	1:4(0)	879/2::		RMG:d(T)										
_	(Lh) 321.96	-3868°	•	-743.98		(Fy) 729.32								
+2	179.17 128.37	1262	7.48	156.88 -245.09	-	248.70 -52.75								
	TIC	T18	Lob	Mah	Lie	Mic	Lh	4(Lh)		· d(1%)	FE	4(F2)	Fy	4(Fy)
1	2.863 2.133	-1.951 -1.405	-9361. 542.	-1998. -19973. -23836. -3882. 2228. 15700.)	-13976. -7506.	1729. -16605.	-7718. 4088.	242. -382.	-407F. -15108. -20409.	1224. -1357.	199. -11. -319.	3. 24.	169.	20. 49.
3	1.388 2.884 3.367	-1.752	17194. -8524. -14547.	-23836. -3882.	3125. -11129.	-3157A. -112.	18171. -7094. -16269.	-613. -2036. 1130.	-20409. -5425.	1998. 387. -1873.	-319. 168. 317.	3. -22.	362. 112. 24.	-68. -13. 16.
•	3.934 2.733	-1.617	-16367.	15700.)	-1315F. -22506.	30425.	-18759. -28013. 352.	-1190. 2503.	-1212. 9202. -7153.	2044.		25.		-52.
į	2.254	-2.543	-15010. -19938	15700.) -8482. -8364. -11344. -7298.	-20982. -28986.	-1992.	-15056.	-1031.	-11166.	437.	17. 255. 371.	-69. 3. -15.	193. 239. 360.	-34. 25.
11	2.604		4 *** * * * * * * * * * * * * * * * * *	-7298. -6512. 928.		-/344.	•281.	-198. 923.	-6598 -4141. 1224.	-741. -1371.	-31.	16.	161. 121.	-1°.
12	3.297 44	622	4951.	921.	7150.	-1246.	3976.	-351. 1242.	1224.	246. 1292.	-47.	-13. 21.	-11.	-30. 10.
			wee M.c	TO CYCLI				-						•
	L:4(0)			R043:4(T1		1 (37 5)	COMPONE	M1)	•					
	(Lh)	400		d(fx)		(Fy)								
+186	757.56 193.88 188.58	36588 -7426 13292	. 29	-761.13 230.98 15.43	2	52.12 111.62 189.43								
	TIC	T18	Lab	Hab	Lle	Mic	Lh	4(Lh)	m	4(Ph)	Fz	d(Fx)	Fy	4(Fy)
1	1:153	-1.961 -1.605	.2122.	-13517. -1885.	-5319.	-15292.	5054. 12654.	-464. 328.	-12726. 1448.	-2986.	-71. -302.	38. -33,	264.	39.
•	1.388	273				-9445. 821.	17988.	-1348.	14256	-835. -831. -P48.	-373. -114. -28.	60.	-89. -389. 163. 397.	6. 17.
į	2.806 3.367 3.938	-1.757 -2.242 -2.817	-231M.	-9626. -17169. -29151.			5175. 2055. -6435.	1322. -1834.	-16878. -11178	197A. -1969.	101.	-31. 55. -25.	718.	15. -13. 18.
?	2.733	-1.555	8254.	-5116.	ESRR.	-9360.	11595	2435. -51.	-16979. -16975.	69K. 36F.	-158.		87. 346.	::•
ì	2.254 2.604 2.821	-3.142 -1.674 -1.629	9728. 65*8. 5288.	-24139. -1912. 1559.	-213. 3237. 7449.	-25866. -31191. -13870. -1657.	14099. 8075. 4332.	179.	-21174. -7208. 2878.	871. 344. 992.	-77b. -182. -120.	-6. -14. -15.	391. 134. -86.	-63. -29.
įį	3.297	-,622	-1035	337.	1186.	4456.	-2013.	-559	1296.	**1.	•.	-7,	-89.	-16.
110	•							1175.		947.		32.		12.
KAR		PPCHENT:	34	MUS	HONEST S			ING SHE	AR FORCE	•				
	716	T18	M2C	TIC.	IMC	LAC	ASC	14¢	YAC	240				
1 2	2.863 2.133 1.388 2.804	-1.405 873 -1.752	-13881. -19199	-10222. 2768. 15213.	+89. -1227. -1211. -125.	2506. 1320. 958.	110. 312. 340.	-65	34. 10.	-36. 24. 48.				
•	3.367	-1.752 -2.242		-7726.		958. 632. 1279.	113.	*369. 154. 356.	-5. -1. -7.	-8. -42.				
1	3.031	-1.242 -2.417 -1.553	7418.	-29578.	1383.	1554.	-167.	653. 42.	16. 18.	-66. -25.				
1	2.376 2.254 2.664	-7.513 -3.162 -1.674	-11381. -16756.	-13437. -10630. -6187.	1363. 919. 214. -657. -512.	1048. 2674. 1111.	259. 317. 172.	210. 384. 131.	-10. 43. -11.	-26. -14. -5.				
ü	2.421 3.297	-1.027	-5237. 1944.	3500. 4136.	-10b.	702. -164.	120. -46.	-60. -81.	-11.	27: 1:				
						_		-	- •					

Table I. (Continued)

		. 11 • 14,		780 MON		2,02 1	• •,26						•		
	1414	PERMIT	MEPI VAT	rives ou	E IM CYCL	IC APRILI	S (HFAN	COMPARTS	T)						
	ROW!	1:4(0)	MW/2	4(T1C)	MM3:4(T										
	-	(LA)	4(1		4(Fz)		(Fy)								
	31	717.92 150.62 121.37	-194 233	15.50 16.62 15.44	-31.1 -49.5	, . ,	471.29 54.24 -41.66								
		TIC	T18	Lab	Mph	Lie	Me	Lh	d(Lb)	m	d(IIIh)	Fz	4(71)	Fy	4(Fy)
	}	3.244	-2,216 -1,897 -1,125 -2,287 -2,521 -2,979 -2,125	1534. 2948.	8271. 18441.	6552. 4816.	10156. 12233.	-678. 358.	-628.	7128. 9656,	-619. -712.	107. 71.	23. 17.	-201. -235.	19.
	į		-1.125	6617	. 14352.	13944.	15244.	2563. -1067.	305. -647.	13965. 6361.	-1942.	34. 196.	9.	-116. -174. -176.	17.
	5	3.305 3.590 4.316 3.188 2.626	-2,521	1766.	7710. 1291.		9903.	-155.	201.	6739.	67E.	188.		-11k.	-1.
•	i	3.120	-1,54	-673 1163 1576	1291. 7312. 9426.	1925. 6934.	11676.	-526. -1865. -2759.	-697. 164.	6132. 6629. 10139.	-1947. 156. 1536.	114.	27	-151. -225.	4 . - 1 .
	10 11	2.368 3.054 3.396	-3,055 -1,989 -1,708	70. 4243. 3233	11197. 10011. 8748.	\$499, 10312. 8926.	11217.	1546. 722.	-76. 1241. -397.	9473. #303.	678. -87.	87. 68.	-36, -20, -11,	-257. -263. -218.	-38. -19. -11.
	12	3.884	-, 871	6636	10265.	13414.	9883.	3530.	125.	14427.	1483.	-15.	-30.	-263.	-36.
	\$100	w .							550.		974.		11,		25.
	147A)	HOMENT	DERIVAT	IVES DUE	TO CYCL	C ANGLE	t (3P co	S COMPON	(TKg						
	N/W/3	114(9)	Mm/2 :	4(730)	BM3:4(T	18)				•					
	•••	(Lh)	4(#		4(72)	-	(Fy)								
	-32 -32	188.35 147.36 158.69	-1282 243 279	4.57 6.99 3.78	-146.69 55.63 -31.53		204.27 -32.73 -31.51							 	
		TIC	715	Lab	Meb	Lte	Plc	Lh	4(Lh)		4(1%)	**	4(**)	· sy	4(Fy)
	1	3,244 2,726 1,890 3,365	-1.697 -1.125 -2.287	*ZZBZ.	-11101. -10253. -12066. -9840.	-5832. -3372. 1675. -6309.	-9758. -13588. -8050.	427. 2492. 7805. -389.	-764. 783. -717.	-11919. -1065. -11388. -18822.	-1013. 311. -123. 342.	75. 20. -61. 72.	-3. -18. -2,	162. 163. 170. 170.	0. -6. -1. 2.
~	•	3.590 6.316 3.186	-2.521 -2.979 -2.125	-2163. -5358. -1572.	-9248. -9327. -8638.	-5696. -9416. -5358.	-756b. -5699. -6867.	-607. -3567. 88.	416. 700. -897.	-9984. -10920. -9404.	922. -542. 1411.	67. 165. 70.	-34 -7 -8	141.	-25. 5. -16.
	į	2.820	-2.548	-1071.	-12629.			997. 3516.	-670.	-13413. -15398.	-559.	77.	17.	188.	-1.
•	ij	3.954	-1, 480	-1301.	-16971. -11030. -7591.	~4 E 9 D .	-17832. -13988. -9207. -3724.	281.	37\$. -588.	-11876. -2409.	-1981. 788.	44. 73. 75.	23. 15.	144.	23. 13. -3.
	12 51 0 00	3. 804	-,877	-64.	-5804.	-3225.	-4538.	1328.	713. 668.	-6361.	-433. 744.	51.	-5. 16.	126.	19.
				•							/44.	•		٠.	. 13.
					TO CACT		\$ (3P SIN	COMPON	(TAT)						
		:4(0) Lh)	401:1: 4(14		ROH3:d(T) 4(Fz)		(Fy)							•	
		56.19	1524		25.69		185.78								
	-29	87.77 14.53	261	6.31	10.11 59,00		66.73 -23.64								
	•	TIC	725	Lab	Meb	Lle	Ple	Lh	4(Lh)	Ph -5287.	4(1%) 348.	Pa	4(71)	#y #2.	4(Py)
	1 2 3	3.244 2.728 1.899	-2,210 -1,697 -1,125 -2,287	-25 <i>0</i> 8. -451. -799.	-\$928. -\$234. 2234.	-3368. -1655. -20.	-5077. -4162. 1971.	-603. 368. -1142.	-1900. -16. -171.	-9287. -4283. 2354.	-1549.	3.	35. 21. -2.	54.	10.
	ì	3.305	-2.287 -2.521	-50.	-7419.	-1467. -1918.	-8083. -2776	76B.	-816. -1251.	-7177. -6137.	-177. 2489. -1297.	-11. -27. -44.	34.	-31. -31. 75.	-15. -56.
	ţ	3.598 4.316 5.186	-2.521 -2.975 -2.125 -3.543	2067.	-1687E.	-3593. 300. 1302.	-15627. -9185.	3651. 2815.	842. 1934. 303.	-14008. -ERBO.	-871.	-70. -70. -76.	-16. -37. -10.	201. 79. 65.	29.
		2.320 2.340 5.054	-3.543 -3.655	2636. 3369. 1729.	-7284. -6880.	1826.	-9177, -7261, -6191,	2934. 4847. 2335.	303. -366.	-6619, -3560. -6696.	-1058. 1111. 355.	-103.	-10. 3. -17.	67.	-17.
1	1	3.396	-3.855 -1.950 -1.701 877	175.	-4680. -4984. -5278. -1912.	351. -2203. -6948.	-5056. -2717.	1113. -3637.	-366. 1697. 1379. -638.	-5371. -4438.	111.	-44.	13.	55. 95. 91.	-10. 14.
	E) GOV		. ,,,,,,,,,		,				1095.		1076.	•••	10.		18.
٠,	esteric.	M16 60	MPONENTS		IN	Ming HT S			1913 SHE	AR FORCES	,				•
-	•	TIC	TLS	M2C	LIE	mc	LAC	Asc	MC	146 .					
	1	3.244	-2.218	-5458. -5116	-2750.	-6761. -5144.	3157. 3378.	45. 88.	78. 58.	#3. #3.	-4. -18.				
	3	2.725 1.090 3.305	-1.697 -1.129 -2.287	-5316. -5123. -5695.	-885. 5081. -3755.	-6245. -4927.	2725. 3366.	91.	-46. 73.	#6. 72.	-15. -1. -5.				
	•	3,548 4,314 3,186	-2.521 -1.979 -2.125	-5637.	-3370. -8833.	-4567. -3634.		45. 116.	72. 175. 70.	4F.	-78.				
		2_828	-2.5h	-8173.	-3286. -2711.	-3196, -5239.	3285.) 3376. 3784. 3318.	132.	44.	56. 72.	13. -11.				
1	*	1.348 5.054 3.396	-3,055 -1,920 -1,703	-9722. -7661. -4816.	-11. -1115. -1516.	-\$676. -4746, -3893,	5268. 2827.	132. 175. 112. 67.	51. 64. 85.	88. 74.	-11. 0. -10.				
		3. 804	-,877	-1337.	-1955.	-5000.	2883.	39.	71.	87.	-19.				

Table I. (Continued)

***	T 23	LOCKED 61												
	- 101.		- 202.6	16J - (1.61 P	- 1.25								
						-•								•
				TO CYCL		s (mean	COMPONEN	7)						
	1:4(0)			M7:13:4(T)										
	(Lh) 378.39	#(PE		4(Fz) 298.51	_	(Fy) 445.24								
10	567.78 696.12	-2744 1594	2.34	-94.40 -155.5	,	177.69								
•-										-				
=	TIC	TIS	Lsb	Mab	Lle	Mic	Lh	4(Lh)	iii	d(Ph)		4(Fz)	Py	d(Fy)
1	1.735 .721	-1.633	1105. -1795.	-7766. 28712.	3177. 4445.	37856.	423. -4705.	106.	-19959. 25858.	-12b.	300.	-61. 1.	-71 -310:	3:
3	. 204	866 911	7456. -7155.	42897.	18661. 4157.	54074.	-22135.	-4337. -2085.	17787. 36498. 1569.	-1474. -1988. 2334.	50K. 188. 371.	164. 87. -32.	-328. -652. -166.	-40. -11.
į	1.482	-1.250 -1.686	7645. 6867.	-21469.	11253. 7129.	13141. -14557.	6051. 6717.		-26672. -66753.	2795. -4350.	276. 534.	-34. 166.	-10. 17.	33. 22.
7	3.016	-2.881 -1.081	8828.	-60369. 11614.	-8621. 11546. -9792.	18936.	-7991. 6765.	-342A. 2033. 323A.	#371. -17175.	1523. 2017.	2°6. 366.	-51. -105.	-189. -96.	-83. 21. 67.
10 11	1.655	-2.107 -1.168 153	5109. 26784	-13153. 7547. 24477.	9515. 32667.	1638#. 2938#.	-13239. 3166. 26175.	473. 717.	452R. 22301.	2543. -1696.	276. 196.	-72. -12.	-174. -235.	ij:
210		433			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.364.	141/7.	2661.		2783.		85.	-177.	43,
HUB	HOMERT	DERIVAT	VES DUE	TO CYCLI	C AMPLE	9 (3P co	S COMPON	ENT)						
ROW	114(0)	RCRF2 t	4(T1C)	R043:4(T)	(2)									
4	(Lh)	4(m	h)	d(Fx)	4	(Fy)								
6	166.49 166.78 243.28	-2511 -433 -2051	1.14	378.71 -182.69 177.33		225.34 225.79 -74.75								
	TIE	715	Leb	· Mab	Lle	Kle		****		4(1%)	Fa	A(FE)	fv	d(fy)
1	1.735	-1.433	1317.	-2019.	1254.	-7311.	Lh 11020.	4(Lh) 1078.	314.	4(m) 627.	-212.	-19.	243.	19.
į	.721 .975	-1.041 860	2461. 2526.	-395. -192.	1714. 1533.	2116. -1879.	2789. 2982.	471. -163.	-1501. -505.	-#11. 61F.	100.	38. -79.	30.	-16. -17.
í	1.482	911 -1.250	-20.	1803. -1514.	931.	6194. -2084.	-639. 6893.	1082.	-133. -1342.	546. -482.	176.	•3. 91.	-38. 173.	73. -24.
ţ	3.292	-1.486	10102. 15061.	-1796. -F#16.	982. -2604.	-8266.	14581. 22837.	350. 677.	1056.	1500.	-250 -635	45. -31.	389. 707	-19. 75.
i	1.303	-1.081 -2.107	6892. 8379.	-2270.) -1999.	2335.	-3388. -10511.	6014. 10903.	-307 -1093	-1811. 1766.	-441.	-62. 161	-44	102. 230.	-45. -73.
10 11	1.429	-1.169	1927. 1958.	-2037. -2787.	557. 235.	-3351. 374.	6858. 2726.	-591. -31.	-1457. -2711.	-731. 13.	-53.	37. -43.	176. 89.	-6. 10.
\$100				2,7,7,7				761.		802.	•	47.		43.
***	MONET AT	OFRI VATI	VFS DUF	TO CYCLI	C ANGLES	1 (30 511		ent)						
	L:d(0)			10W3 14(T)										
40	Lh)	dim	•	4(Fx)	4	(Fy)								
-5	311.53 343.46 311.52	-4833 5118 -2287	.76	436.73 -302.83 -24.71		12.92 12.64								
	TIC	725	Lab	Mab	Lle	Mic	Lh	4(Lh)	70	d(Mk)	Fz	4(Fz)	Fy	4{Fy}
1	1.735	-1.433	-531.	7007.	6164.	5286.	-3725.	120.	7541.	217.	-19.	4,	-172.	27.
3	.721	-1.041	1402. -704.	3346. 4117.	3622. 3323.	10071.	-2678.	1797.	939. 1691.	-101. -415.	210.	-26. 75.	-161	-41.
•	1.482	911 -1.250	-497. 83.	2547. 5415.	1902.	11287.	-155h. -1799.	-1034.	-1398. SRES.	374. 53.	354.	-48. -42.	-94. -171.	-38. 68.
į	2.292	-1.441	803. -2917.	8632. 10750.	10146.	3670, •751.	-3314. -9990.	877. -1104.	14*01. 14811.	695. -479.	-286. -bf0.	10.	-576. -636.	-15. -20.
į	1.343	-1.011 -2.107	-1523.)	5320. 9221.	6142. 10296.	4374. 10314.	-1712. -6730.	154.	6450. 6733.	544. 279.	42.	-27. 56.	-163. -473.	26. -66.
16 11	1.429	-1.168 153	2103.	5017. 2594.	4453. 3175.	6930. 4230.	-1804. 1764.	514. -529.	6272. 1871.	-817. 127.	74. 45.	41. -6.	-174. -40	-44.
\$100								994,		449,		19,	-	10.

Table I. (Continued)

TEST 23 CONTINUE

SMASHPLATE	DERIVATIVES	DUE TO C	TCLIC	MOLES

			(3¢ co	COMPONE	MT)			(38 8	IN COMPO	HENT)	
	•		dilan) 4(M	sp)			d(Las) 40	Hsp)	
			-63 31 19	,17	64,25 7,44 71,38			-47	.14 .92 .79	-47.47 33.13 4.63	
	710	TIS	Lap	D(Lsp)	Hap	D(Msp)	Lap	D(Lsp) Nap	D(Msp)
1 2 3	1.735 .721 .975	-1,041	-27	13.	-22. -16.	-23 -21 -4 61	:	-54 -15 -37 -53	21 -30	-15. -21.	10. 17. 6.
\$ 6 7	1.452 2.292 3.016 1.303	-1.486 -2.441 -1.081	-5. 23. -19.	-6. 18. 3.	-!!: !!! !!!.	27. 22. -10.		-16 -109 -310 -3	26 3 -102	-72. 52.	-16. 25. 17.
10		-1,168	-24.	-3.	54. -1. -61.	-37, -23, -5,		-16 -6	10E	-52	-12. -33.
21	Der.			11.		19	•		56.	• •	20.
HAR	MONIC CC	MPONENT:	3 1	HUE HO	IENT'S			HUB SHEA	A FORCEJ		
	Tic	T18	MZC	ue i	 .	LAC	ASC	MIC	YAC	Ite ,	
1 2 3 4 5 6 7 6 9	1.735 .721 .975 .209 1.482 2.182 3.016 1.505	-1.033 -1.061 660 911 -1.230 -1.646 -2.641 -1.081	-967, 967, 710, 269, 2143, 1 5147, 1	1886 22261 -872 62781 27611 93246	539, 511. 643. 530. 129. 1 753. 1	1962. 925. 736. 633. 615. 1860. 1513. 585.	166. -96. -99. -196. 98. 293. 583. 50.	-242, 6, -06. 40. -97. -316. -635. -102.	117. 126. 139. 156. 75. 87. 123. 72.	39. 95. 65. 136. 74. 57. -1. 61. 66.	
10	1.429	-1.168 153	174.	55651	630. 1	293 422.	51. 2.	-113. 23.	125. 67.	\$1. \$3.	

Table I. (Continued)

TEST 26 VET = 101,	LOCKED GYRO MODE 87 RPM = 194,1	MU = 0,51	P = 1,36								
1108 H-74E H	DE-IVATIVES DUE	TO CYCLIC ANS	ES (4EA=	Caa-ug -4	n						
-M11:d(0)	ROW2:d(T1C)	~0¥3:d(T18)									
4(* h)	d(m)	d(Fa)	d(Fy)								
15923.46 5548.10 16665.66	\$3450.52 -17585.23 13757.55	154.20 -10.07 -55.45	-312.75 00.15 -62.30								
- 110	T18 tab	PSD EN	. 44	16	4(+ h)	•	d(m)	FE	d(Fa)	Fy	d(Fy)
1 2.63 2 1.20 3 .37 5 2.75 5 2.63 6 3.52 7 2.01 6 1.57 9 1.58	-1.073 6223. -1.356 7854. -2.036 650. -1.675 5044. -2.360 -17457. -1.516 6161. 565 13861.	35300. 1201 6826. 1063 -18190. 90 -266. 718 -182581606 7888. 852	7. 22902. 3. 42350. 1. 10635. 110413. 2. 5571. 19002. 7. 13757.	3668. 6624. 529. 4098. -18070. 5143. 12212.	30%. 809. -204. -300. -201. 954. -121. 1993. -413. -413.	1956- 12669. 32171. 2335. -21302. -2806. -22362. 5162. 13176. 25517.	-266. -617. 166. 317. -1267. 1607. 272. -806. 1744.	267. 28%. 252. 250. 291. 233. 372. 258. 191.	22. b. -2. 29. -25. 1. -27. -18. 17.	-116. -108. -232. -111. -10. -46. -57. -14. -152.	-2. 11. 5. -1. 16. -28. -36. -31.
\$16%A					33 7.		£1.		18.		15.
with 150 ct 17	DERIVATIVES DUE	TO CYC! 15 A 10.		• •••••							
90W1:d(0)	ROW2:d(T1C)		is use co	a CUMPUM							
d(Lh)	d(Ith)	d(Fa)	4(Fy)								
-91.35	-8968.27	241.17	-91.01								
4319.79 279.52	1018.62 -6294.47	-250.03 11.85	53.67								•
4 T1C	TIS Lab	Mab Lie	Mlc	Lb	4(I,h)	Ith	d(nh)	FE	d(Fz)	Fy	d(Fy)
1 1.637 2 1.200 3 .377 6 1.791 5 2.531 6 1.924 7 2.010 8 1.479 3 1.523 10 1.132	-1.58% 5309. -1.339 6300. -1.073 2226. -1.396 5196. -2.036 7892. -1.675 5397. -2.900 5700. -1.516 5789. 985 5588.	305. 2542 -725. 2667 -1286. 6107 87. 2562 -346. 604 3327. 32 8460. 2226 2071. 4405 -3520. 1207 -5002811	-2868. 110. -3157. -15127. -898. 1202. -694.	6525. 5270. 1397. 6345. 10010. 7622. 7227. 6395. 7254. 3715.	-12. 523. 182. -911. 532. -122. -523. 780. -350.	1975. 219. -1909. 1513. 6167. 5187. 11624. 3229. -1578. -6125.	-1232. -577. -111. -278. -657. 1695. 1024. -556. 559.	-115. -86. 36. -129. -591. -169. -290. -103. -176.	72. -9. -80. 94. -175. 91. 6. 43. -10. -52.	111. 73. -75. 105. 286. 211. 139. 55. 152.	-16. 12. 5. -60. 16. 37. 14. -65. 3.
3134					374.		779.		7.	•	
	DERIVATIVES DUE		ts (3P \$11	N COMPONE	MT)						
ROW1:d(0)	ROW2:d(T1C)		4(fv)						+		
6579.37 -3216.15 8656.19	-10755.#3 #026.50 -3019.30	-657.92	395.45 -177.32 261.44								
4 T1C	TIS Lab	Hab Lic	Ale	Ln	4 (Lh)	MB	4(14)	Fæ	d(Fx)	Fy	d(Fy)
1 1.637 2 1.209 3 .372 5 2.531 6 1.926 7 2.618 8 1.679 9 1.583	-1.58h -2677, -1.39 -2196, -1.873 -724, -1.396 -2262, -2.036 -6220, -1.673 -2465, -2.980 -6056, -1.516 -2466, -985 -1830, -,482 -512,	635h, 3236 1958, 958 -7569, -1235 7645, 3731 21012, 9279 10597, 7855 21645, 12356 8721, 6316 8090, 2199 -1622, -1348	-727. -14238. 11035. 31041. 14117. 37124. 7933.	-5281. -3587. -503. -4901. -13045. -6982. -14165. -5450. -3316. -143.	1098. 223. -675. 1061. -1596. 761. -192. 99. -20.	5817. 3140. -4626. 6175. 16594. 9039. 16780. 6183. 5474. 836.	-1346. 154. -94. -1658. 692. -699. 654. 496. 349. 1058.	\$8. -107. -267. 135. \$01. 181. 622. \$3. -125.	-57. -64. 6. 59. 2. -62. 37. -8.	-237. -126. 20. -240. -620. -412. -736. -271. -153.	72. 43. -29. 68. -36. -28. -17. -6. -19.
2134					810.		992.		\$1.		37.

Table I. (Continued)

YEST	24	CONT I INVES	-								
			- SMASHI	HATE DERI	VATIVES (0UE TO C	YCLIC /	MIGLES			
			fb/1:d	(0) RM2:	d(TC) 😁	3:4(78)	•				
			· (3P (cot conso	(TNS			(3P E	IN' COMPO	NENT)	
			d(La	o) d(tsp)			d(Lsp	j 40	Mae)	
			5:	9.39	94.09 59.69 41.62			-64	:33	76.71 17.49 91 11	
•	TIĆ	TIS	Los	Bills) Map	D(Hap)	Lap	D(Lap)		fi(Map)
3	1.63 1.20 .37 1.79 2.53	-1.339 2 -1.673 2 -1.396 1 -2.636	-12 -12 -2	019 7. 25 732 7. 3	-10 -13 -50 - 191	-16 26 -5 59	:	-59, -63, 14, -2, -101, -254,	-32. -20. 64. -44.	16. -33. -10. 25. -97.	56. -10. 5. 41. -52. 26.
Ì	1.41	-2.988	-8	3. 23 6. 20	. 157.	15.		-119. -16.	21.	-216. 31.	-61. 67.
1	1.58	245		4. 34	. 44.	10.		-10.	44.	10. -45.	-98.
\$100	•			24	•	57.	, ,		10.		50.
MARK	ONIC (COMPONENTS	i:	HUB N	DAMENTS.			HUB SHEAR	FORCES		
	TIC	T18	MZC	F3C	MC	LVC	72C	XZC	THE	242	
1 · · · · · · · · · · · · · · · · · · ·	1.637 1.209 .372 1.791 2.572 1.924 2.010	-1.339 -1.073 -1.516 -2.038 -1.675	3478. 1963. -499. 3107. 9606. 6084.	6260. 13702.	1201. -1696. -3439	334. 1069. 3012. 45. 2492. -706.	31. 90. 96. -15. -59. 33.	-178. -106. 38. -185. -408. -291. -513.	\$0. -17. -171. 120. 362. 176. 580.	61. 20. 10. 55. 14. 121.	
10	1.479 1.583 1.132	-1.516 985	4339. 869. -1991.	6219. 6364.	1111.	106. 890. 1660.	138.	-167. -165. -23.	\$2. 13. -49.	6h. -11. -56.	

Table I. (Continued)

TES	T 25 1	REE GYNG	M006											
AEL	- 102,5	13 RPM	- 263,6	MU - 0	.41 P	- 1.25								
****	HONET	DERIVATI	AE2 DAE	TO CYCLI	C A.IGLE	الخكام) \$	COM PUMEN	r)						
	1:4(6)			tows:d(Ti										
-	(LR)	d(mh		4(FE)	_	(Fy)								
15	392.58 105.75 658.76	43282 -21169 24281	.02	248.25 -171.20 -335.70		616.66 258.08 189.36	٠				-			
•	TIC	715	Lab	Hab	Lle	nle	Lh	d(Lm)	***	· d(NA)	Fz	d(fx)	**	d(Fy)
1 2 3 6 7 9 10	1.664 1.211 .729 1.707 2.161 2.427 1.656 1.795 1.626 1.525 1.525	-1.157 -1.255 -1.121 -1.206 -1.003 -1.115 -1.222 -1.755 -1.580 -1.693 805	2298. -3881. -8026. 1427. 17754. 14921. 1299. -13177. -130. 8465.	5531. 16697. 26228. 6403. -7751. -9416. 4408. -10785. -3721. 6479. 10292.	7412- 3875. 1532. 6909. 11124. 1620. 6725. -12564. -12565. 5481. 16105.	26947. 38525. 14739. -1970. -5478.	-7331. -12262. -930. 10558. 15013. 320. -13837. -13847. -2199.	652, 2463, 1615, 114, 164, 3106, -2115, -765, -2720, -876, -541,	1897. 12170. 20793. 2726. -17273. -21145. 675. -16828. -15927. 2565. 7624.	1916. 5913. 4888. -3063. -2718. -551. -6382. -2434.	335. 610. 692. 533. 231. 158. 339. 566. 355.	-15. -52. -8. -27. 15. -49. 31. 19. 64.	-205. -311. -346. -219. -17. 9. -179. -25. -33. -213.	-39. -66. 28. -79. 49. -16. 16. -6. 63. 9.
12	1.675	208	24770.	23602.	33477.	25086.	20317.	-1995.	22933.	1.	51.	31.	-348.	-4.
\$10	u							1671.		3344.		33.		. 30.
AUS	:104E-17	PERIVATI	AER DUE	TO CYCLI	C MIGLES	(3P co	S COMPONE	prt)						
	Lid(B)			OW3:4(T1:										
	(Lh)	4(14)		d(Fx)		Fy)								
51	10.56 189.73 173.66	1662. -1627. 172.	. 25	-35.92 -62.24 68.64	1	93.16 94.34 61.21								
4	TIC	T15	Lab	Mab	Lic	Hic	Lh	d(Lh)	:4h	d(Mh)	Fa	d(Fg)	Fy	d(Fy)
1 2 3 6 7 8 9 10 11	1.664 1.211 .729 1.707 2.161 2.427 1.656 1.795 1.626 1.529 1.549	-1.157 -1.255 -1.121 -1.206 -1.008 -1.115 -1.022 -1.755 -1.510 -1.098 805 200	\$872. \$172. \$328. \$312. 7490. \$758. 7826. 8009. 4451. 2057.	-3022. -1858. -617. -3805. -3987. -4497. -3167. -5511. -3729. -1950.	-2653. -1492. -1767.	-9073. -63%1. -1%6. -8789. -8%81. -59%6. -59%4. -13389. -13619. -7210. -3635. -12753.	8630. 6235. 3697. 3318. 12390. 11093. 8678. 12779. 12702. 7037. 7706. 3312.	-397. -791. 100. -1712. 105. -1164. -53. 1573. -293. 1077. -36.	-354. 119. -251. -1606. -1716. -3415. -1946. 253. -1023. -1206. 27.	892. 662. -535. -203. 111. -936. -730. 1819. -767. -1185. -184.	-242. -279. -33. -199. -184. -94. -111. -378. -316. -139. -67. -355.	-46. -7. 102. 1. 31. 163. 78. -186. -103. 65. -205.	251. 97. 27. 27. 273. 455. 468. 426. 234. 263. 159.	-86. -88. 16. -22. 29. -44. -5. 50. 22.
\$164	u							918.		894.		103.		¥3.
MUM	MOME:4T	DERIVATIO	res cue	TO CYCLIC	- WILLE	(3P \$1)	COMPONE	MT)						
-	14(0)	R7M2:46		CW3:d(T1										
	LNY	4(m)		4(F±)		fy)								
27	24.76 55.61 69.67	-4078. 2735. -4229.	33	453.28 -251.40 61.18		39.80 29.23 20.01								
4	TIC	T18	Lsb	itsb	Lic	HIC	Lh.	d(Lh)	Mh	d(Ah)	Fa	a(Fz)	Fy	d(Fy)
1 2 3 6 7 8 10 11 12	1.664 1.211 .720 1.707 2.161 2.527 2.856 1.795 1.525 1.525 1.525 1.529	-1.197 -1.255 -1.121 -1.206 -1.008 -1.115 -1.022 -1.755 -1.500 -1.098206	8. -975. -159. 1000. 2163. 6100. 1670. 2070. 2077. 1891. 3964.	6705. 5427. 4444. 5393. 5093. 4241. 5064. 7131. 6918. 3422. 4454. 1350.	6407. 4553. 3097. 5950. 5744. 5259. 5245. 8747. 8446. 5347. 3819.	8341, 9077, 5290, 253, 4227, 6249, 4657, 4537, 1374,	-2812. -3410. -1591. -1113. 496. 3660. -2346. -712. 1234. 911. 4269.	-2549. -1688. 1098. -765. -1232. 1644. -207. 52. 1622. 1623. -87. 510.	\$980. \$107. 2400. \$435. 7222. 6463. \$430. 7315. 7905. 1074.	611. 563. -255. -255. 1176. -812. 658. -762. 852. -1808. 331. -275.	65. 115. 185. -4. -194. -202. -55. -90. 44. 41. 25.	78- 22. -39. 21. -62. 1. -28. 35. -69. 20.	-256. -221. -130. -196. -151. -44. -211. -254. -215. -215. -21. 28.	-90. -26. 55. -21. -32. 90. -7. -17. 6. 42. 10.
£101	4							1275.		e12.		41.		44.

Table I. (Continued)

TEST	_85C	234H) THOS	12.								
			· SMASHI	LATE DER	IVATIVES	DUE TO	CYCLIC	AMGLES			
			83/1 : c	e(0) M/2	1:4(TE)	Ru3:d(T\$)				
			E3P (004 CONFO	MgHT)				COMPONE	MT)	··:
			dila		(Nop)			d(Lse)	d(He	()	
), 45 1, 47 1, 32	-11.61 17.60 -12.10			105.5 	• 1	3.13 7.30 2.62	
	TIC	715	Lap	D(Lse		D(Msp)	, 13		O(Lep)	Map	D(Msp)
1 2	1.664	-1.157 -1.255	-21	. 17.	. 12.	; :		-44. 7.	-23. 14.	-19. -18.	22.
	.729 1.707	-1.121 -1.206	-20 -28		: ::	18. -2.		-28. -20.	-+1. 6.	-18. -46.	13. -19.
ì	2,161	-1.008		19.	35.	25.		-87.	-53.	24.	27.
•	2.427	-1.115	-13 -48			12.		-60. -3.	-10. 11.	19.	26.
- 1	1.793	-1.022 -1.755	-72		1	-13. -26.		-57:	10.	-104.	-33.
i	1.626	-1.580	-74	-18.	. 28.			-7.	34.	-84.	-25.
10 11	1.525	-1.098 805	-34 -19			-13.		12:	25. 2.	-2:	12.
12	1,675	-, 200	20.			-29.		si:	29.	20.	-36.
110	4			16,	•	17.			27.		22.
HARM	MIC COM	PONENTS:		HUE HO	BTH300			16/3 SHE	AR FORCE	8	
•	TIC	T18	Mc	LZC	mc	Lec	ASC	HZC	746	10C	
1	1,664	-1.157	1229.		-1583.	1325.	93.	-249.	158.	7	
;	1.211	-1.255 -1.121	1764. 678.	5571. 3048.	-1646. -921.	561. 619.	-11. -79.	-200. -82.	108. 106.	21	
•	1,767	-1.206	-267.	6876	-1347.	1661.	139.	-138	135.	-:	
Š	2,161	-1.008	-1206.	9806.	-719.	2584.	319.	-169.	126.	-10	
•		-1.115	-3537.	1178.	122.	2715. 1624.	336.	-127	134.	-27 16	•
- 1	1.656	-1.022	-100s. 1302.	7054. 10247.	-938. -1066.	2732.	252.	-345.	116. 216.	-34	•
•	1,626	-1.560	-455.	10304.	-1367.	2398.	251.	-285.	168.	-31	
10	1.525	-1.098	-1698.	4910.	- 6 9 5 .	2053.	. 15.	-127.	139.		
11 12	1.519	805 -,200	-1052. -2121.	5856. 2443.	-148. 2148.	1851. 1369.	111.	-74. -164.	157. 92.	-191	
•••								••••			-

Table I. (Continued)

		ME 6780												
	- 192.e		- 193.1	M2 - 0	.52 P	- 1,34								
-		-												
	1:4(0)			TO CTO I		B (4(V=)	t	*)						
-	(f. p .) (f.efe)	-MISIC		ROW3:4(T1 4(F1)		(Fy)								
	021,23			64.73		76 (. 15								
7	744.23 114.23	51718 -20054 16528	. 62	-116.16		134.63								
·	T16	715	tab	Mak	Lle	H te	13	4(+ h)	140	4(=4)		d(fa)	**	d(Fy)
1	1.879	-1,304	3f63.	19005.	7647.	12110	-8332;	-437:	3413. 14104.	305.	242.	-31.	-167.	٤.
;	1.230	-1.426	-3132. -6507.	24834.	2024,	28265. 36829.	-10653.	+10.	20383.	-1034. -184.	371. 483. 196.	30. 25.	-310. -377. -35.	-15.
3	2.563 3.210 1.560	-1,063 -,776 -1,112	18681. 3579.	-2762. -15767. 7283.	11588. 16145. 7801,	2160. -10615. 13563.	13717.	-817. 195. -2806.	-6300. -15206.	-1269. -2001.	133. 252.	1. 11.	101.	17.
į	1.189	-2.064	-4861. -13675.	-6540. -12307.	-1337	4371.	1716. -5010. -15081.	-106. 681.	-11060.	1163.		0. -18,	-15.	-li.
1	1.117	-1.375	1313. 13761.	1957. 13503.	8219. 20210.	19073. 19170.	2786. 10857.	2111. -916.	5444. 14453.	1132. 1766. -3053.	526. 236. 131.	-53. 18.	-161. -155.	ił.
33	2.075	.005	27448.	32504.	37455.	30662.	22533.	15 ve.	33207,	3875.	-66.	-37. 25.	-488.	-58. 15.
818				-				1306.		1854.		49.	•	
HUS	MOHE HT	DE OI VATI	AE2 DRE	TO CYC. I	C AMILE	13P CO	COMPONI	ENT)						
	114(8)			1063:4(73										
-	(th)	4(**	-	4(F4)		(*y) -T								
6.8	130.73 183.45 126.57	-3164 -1419 -4700	. 25 . 65	-363.57 -363.57	-	\$: : : : : : : : : : : : : : : : : : :								
	TIC	T15	lsb	Hab	1 %	# to	Lh	4(15)	***	4(%)	7.	d(Pa)	F.y.	4(77)
1	1.678	-1.384	4534.	-15ge.	449.	-4557.	5218.		<u></u>	6.	-185.		294.	
į	1.250 .892 2.568	-1.536	1145.	93.	-217.	-455.	4844. 6191.	-754. 2039. 1563.)36. 1260.	-2325. 1651.	-12. -17. -309.	-120	-25.	# :
•	2,568 3.210	-1.843 776	###7. 12227.	→715. -13042.	-2632. -5631.	-14444. -32031.	23840. 28692.	-258. 1916.	-+25. -+666.	1885. -338.	-760.	-141.	452. 715. 162.	-13. 60.
ţ	1.144	1.111	5676. 8273.	-2587. 133.	-1011	-14444. -32011. -5545. -7456. -6225.	\$1.33. 12367.	-114	-1104. 3495.	161.	-134.	11.	572.	11:
1	3.210 1.649 2.200 2.107 1.019	-1.501 -1.375	7277. 6443. 5746.	1076. -991. -3627.	1310.	-6225. -6326. -7816.	10831. 8665.	-1217. -799. 48.	6252. 675. -1781.	-1193. 1392.	-192. -133. -167,	61.	323. 282.	-33. -65.
11	1.676	- 576	4211.	-7212.	110.	-5085.	4393. 9940.	-1163.	-7752.	-1715.	53.	105.	361. 161.	.st.
\$167	•							1969,		1057.		>>.		48.
MUS	MD=48:47	DERIVATIO	ves oue	70 CTCL10	C AHRLES	(3P \$ts	COMPONE	(TH)						
RUM'S	td(0)	ROW2 : 41	(T1C) 4	OW3:4(71	5)						_	2		
	Lh)	4(14))	d(Fx)		Fyl								
-36	35.41 34.98 64.39	-9980. 6312. -3751.	.08	-652.01 113.59 -296,23	-1	01.53 \$6.78 \$1.40		_ ,						
я	720	TZS	Lab	Mab	Lle-	. Nig	Lh	d(Lh)	4%	4(-4)	fz	d(fg)	fy	d(fy)
1	1.971	-1.506	-1337. 671.	7598. 2211.	4554. 2217.	8196. -981.	-3976. 13.	-1030. 1957.	7331. 3616.	-61. 356,	26. -128.	45. -60.	-240. -78.	-9. 53.
3	.812 2.548	-1.554	-866. -1786.	536. 11733.	315#. 697#.	-2072. 17511.	-2610. -5329.	-2020. -2026.	1663. 11383.	18%.	-102. 31.	-32. 62.	-160. -367.	-60. -81.
1	3.210	-i.112	-1202. 1121.	11525. 6022.	6057. 6112.	8600. 3051.	-6397. -198.	-187. 1971.	12886. 7327.	-389. 439.	-117. -119.	-10. -37.	-290. -128.	20. 52.
ï	2.200	-2.541	-2296. -3520.	16923.	10607. 10828.	17927.	-7977. -9840.	1395.	12394.	-1227.	159.	-25. 59.	-514. -574.	- 25.
10	1.899 3.792 1.876	-1.375 578	-62. 270.	5837. 4323.	3096.	4160. 2477.	-2766. -256.	-3040.	5691. 5254.	-1472. 1865.	13. -74.	246.	-161.	-112.
31 8104		.035	6435.	-7547.	-1004.	-64616.	9709.	3134. 1778.	-1521.	-1203. 1075.		-#. 14.	294.	. 52.
3.00	-											***		

Table I. (Continued)

	TEST	26 (1	MT I INCED		•							
				SMASHI	LATE DE	LIVATIVES	DUE TO C	YCLIC .	AMGLES			
				EW1:	4(0) m	42:4(TC)	m3:4(T)	1)				
				UP_C	205 COMP	Page (The good			(3P #	N SOMPON	(Tigit)	
				dile	•) ((Nse)			ditag	d (1	lap)	•
			•		9, 37 1, 24 1, 09	-23, 79 34, 70 1, 44			-56.	17	39.78 -0.55 27.02	
		TIC	718	Lap	O(Ls) Hep	D(Map))	Lsp	D(Lsp)	Map	D(Msp)
į	1 2 3 5 6 7 8 9 10 11	1.978 1.250 .892 2.568 3.210 1.942 2.200 2.197 1.899 1.702 1.676	-1.304 -1.026 -1.930 -1.643 -1.776 -1.112 -2.080 -2.501 -1.375 -570 ,005	~53 ~38 ~28 ~28 ~5 ~52 ~52 ~60 ~60	21 21 21 21 -21 -21	1. 52. 84. 103. 57. 81. 5. 25.	-16. -16. 20. 16. 15. 31. -64. -15. -57.		6. -36. -82. -161. -12. -62. 7. 16. -12. 52.	29. -10. -73. -25. -50. -18. 5 -5 -5 -5	16. 15. -38. -10. -10. -13. -52. -58. 22.	29. 26. -68. -21. 20. -7. -11. 35. -2. -11.
	FARM	MIC COM	PONENTS:		IN BUN	CHENTS			1618 SHE	AR FORCE	s ,	
١		TIC	T18	M2C	uc	mc	LAC	¥26	X2C	***	Icc	
	- 1 8 5 6 7 8	1.978 2.250 .892 2.560 3.210 1.948 2.197 1.899 1.792 1.676	-1.306 -1.426 -1.554 -1.045 -1.117 -1.117 -2.561 -1.375 -570 .885	2036. 262. 3455. 9341. -135. -453. 5734. 7066. 1373. -463.	8274. 4846. 2927. 12511. 16452. 8109. 12382. 11510. 7178. 6763. 2229.	-1940, 174, 625, 3213, -5512, -651, -2261, -2774, -394, -1319, 952,	984. 1224. 1264. 1129. 3643. 782. -16. -679. 1687. 1630. 3751.	110. 151. 34. 210: 616. 208. 111. -53. 157. 356.	-212. -50. -72. -527. -527. -127. -411. -433. -168. -135.	23. -64. 209. 279. 87. 261. 376.	28. 89. -235. -7. 101. 34.	42

Table I. (Continued)

1591		THE GYM						•						
VET	• 120.s	A RPM	- 324,4	M - 1	,36 P	- 1,14								
				TO CYCLI		5 (MEA#	C0-E-	r)					-	
	id(0)	ROWZ:		ROW3:4(T) 4(Fa)		(Fy)						,		
	95.41	75191	1.63	528.33		923.32								
334	197.27 137.93	-3200 3606	:.45	-164.53 -293.21	-	325.28 242.56								
•	TIC	715	Lab	Meb	Lle	H 1c	**	4(1,h)		4(M)	Fn	d(Fx)	Fy	d(Fy)
1.	1.275	-1.055 514	-179. -11556. -3535. -15100. 2360. 12011.	2770. 18286. 4640.	6550. -677. 3434.	16449. 30600.	-3164. -16314. -8604.	-2153. -2269. -1662.	-3331. 12848. -2392.	1610. -5575. 3905.	549. 485. 640.	-6. -44. 52.	-269. -454. -279.	-16. 16. -32.
•	1:173	-1.077	-15100. 2360.	22077. -1788.	-3411. 7341.	39361. 10848.	-20211. 161.	1635.	-10235.	-4527.	691. 545.	59.	-468. -208.	-14. 37. -37. 17.
ţ	1.714	177	44113.		15001.	-3237. -16269.	11938.	4635. -3374.	-20552. -30850. -6474.	7014.	481. 461.	-83. 20.	-88. -36.	-37. 17.
10	1.266 1.281 1.167	-1.616 -1.557	3523. -13065. -24059.	-461. -16098. -22916.	#904. -9682. -22197.	3503.	1150. -14576. -24864.	-64.	-21865. -31698.	-3431. 1194. -1515.	548. 704. 799.	1. 1.	-215. -156. -74.	50. -7. 19.
11	1.346	-1.043	20141.	14419.	#533. #900#.	15253. 23325.	-176. 16221.	-1768. -2213.	-5696. 10485.	896. 2164.	582. 356.	39. -26.	-242. -355.	-32.
13 , \$1 #	1.3/4	527	28366.	18434.	36631.	28055.	24706.	7750. 3370.	16183.	3215. 3771.	385.	ı. vi.	-351.	16.
										3//1.		•	•	•••
	101C17 (14(0)			TO CYCLI TOW3:d(T)		5 (3P CG	S COMPONI	ENT)					•	
	Lh)	4(14		4(Fu)		(Fy)								
:	01.12 97.40	2281		-170.89		164.34								
-101	97.40 54.32	-776	1,75	437.51	-	50.72 259.83								
•	TIC	715	Leb 3341.	Hab	Lie	Hic	Lh	d(Lh)		d(m)	Fx	d(Fz)	Fy	4(Fy) -68.
1	1.275	-1.055 914 -1.162 -1.073	4912-	2349. 3182. 2393. 2960.	-7349. -5664.	-8960. -10325. -10644. -14661. -17719. -13717.	#137. #543.	-4687. -867. -3791.	7359. 9132. 8136.	-2462. 144. -2388.	-453. -540. -521.	30.	436. 421. 473. 516. 576.	-10.
•	1.773 1.227 .675 1.364 1.714 1.936	-1.073 -1.001 -1.298	10659. 1866.	2960. 3382. 2722.	-2233. -4605.	-14861. -17719.	9714. 16333. 16161. 16136.	-3791. 4350. 3976. 265.	10811.	-2388. 531. 3326.	-521. -713. -866. -658.	148. -73. -136.	514. 576.	38. 62. -56.
7.	1.714	-1.298 990 -1.016	10273. 9241. 7349.	2661. 3648.	-1011.	-13717. -13829.	15505. 15202.	2664. 1014.	9984. 9925. 12965.	-1511. 963. 3443.		80. -57. -231.		49.
12	1.201	-1.557 -1.856	11911.	3982. 4628.	-4144.	-17501. -18326. -17728.	19063.	-522.	18689.	-1636.	-846. -972. -894.	-121. 88.	532. 650. 717.	39. 17. 12.
11	1.340 1.430 1.379	-1.043 547 527	4545. 2833. 2654.	1691	-7211. -4399. -6611.	-11905. -11016.	9722. 4899. 6735.	-2863. -441. -304.	7681. 7665. 2605.	-2012. 1886. -3250.	-566. -519. -180.	#3. -110. 221.	470. 369. 371.	-33. -10. -1.
13 816H		*.527	2034.	447.	-0011.		6/33.	2600.	2403.	2284.	-150.	144.	<i>>/1.</i>	45.
			N.	TO CYCLI										
	:4(0)			10 CTC.		• (3F #!	CONFOR	, M1 /	-					
4(Lh)	4(10	•	d(FR)	•	(Fy)								
155 18	10.18 85.91	164 <i>8</i> 5043	.58	-39.29 -252.85 217.80		36.16				,				
15	10.32	-3175	. 58	217.80	i	194.96								
•	T16	TIS	Lab	Mab	Lle	H 1g	16	4(Lh)	Mh	d(+h) 2202.	Fa -122	d(Fz)	Fy 331.	6(Fy)
į	1.275 .773 1.227	-1.055 914 -1.102	16149. 13413. 16470. 18920.	6011. 4272. 6342. 2670. 4612. 5189.	8487. 8599.	-11285. -2864. -11693.	19863. 15575. 19928. 11112. 15766. 12704.	3331. -5. 3037.	13828. 7246. 16285.	-1200. 2819. -1579.	-692. -270. -721. -364. -560. -724.	163.	197. 315. 10.	
•	1.366 1.715	-1.073 -1.001 -1.298	10920. 13067. 12156.	2870.	11270.	-1165.	11112.	-1063.	72%6. 1%285. 6483. 10177. 13163. 12%98.	-1579. -1538. -553.	-364. -560.	79. 65. 31.	10. 60. 50.	162. -168. -137. -111.
7	1.036		19232.	1761	10166.	-12215. -7210. -10207. -11236.		-1069. -336. -28.		-7057.	-547. -560.	197.	191.	-39. -18.
10	1.281	-1.016 -1.557 -1.856	16366.	5517.			16326. 14978. 16349.	-28. -583. 1455.	11357. 16326.	-1298. -1714. 895.	-627. '-800.	-62.	64. 80.	-31. 58.
11	1.340	-1.043/ 547 627	15736. 13686. 10501.	5653. 5971. 3309.	8432. 6575.	-14957. -9416. -9168.	18966. 16899. 18425.	2491. -586. 1115.	15019. 12835. 8685.	3302. 2193. -1471.	-632. -623. -499.	-227. -101.	292. 284. 357.	95. -13. 54.
SI CH			•					2058.		1900.		115.		93.
-		PONENTS:			DINEST'S			-	A FORCES	•				
•	Tie	T18	M2C	LZC	me	we	726	Me		X+C				
1	1.275	-1.055 01b	-6252. -3222	10223.	15611.	-2746. 1148.	584. 345.	-58.	-128.	-396. -365.				
3	1:33	-1.162 -3.973	-3222 -3216; -329.	2395. 11999. 33593.		-1116: 2775 ·	345. 597.	-1773: -163: -297.	-124. 75.	-311: -211:				
į	1.714	-1:861 -1:208 -:300	-1376: -1376:	14999.	[3331. 13354. 13626.	1137. 1504.	568. 629. 558.	-367: -364: -334:	77. -94. 11.	-354. -625.				
í	1.134	-1.016 -1.357	-3698. -1681. 856.	11501.	14645.	1621. 3865.	546. 639.	-332. -454.	-14. 12.	-514: -514:				
10 11 12	1.167	-1.254	-938. -9632.	17484. 12371. 9867. 7770.	15412. 13313. 12237.	3160. -2668.	759. 651.	-602. -126.	-01. -181. -127.	-692. -618.				
12	1.340	-1.643 547 527	-0572. -0810.	7770.	19137.	-1968. -1635.	196. 135.	-118. 39.	-127. -64.	-402. -266.				

Table I. (Continued)

	T 48 - 11 <i>3</i> .	FREE GYR 12 RPM	9 MODE - 232.4	W -	a;sa <i>p</i>	- 1,27								
HUS	MOHE#T	DERIVAT	1 VES DUE	TO CYCLI	C MIGLE	S (#E44	CO+~+E+	T)						
ROM	1:4(0)	ROW2 :	4(T1C)	ROW3:4(T	18)									
4	(U)	d(M		d(fz)		(Fy)								
12	\$10.05 870.04 075.33	7571 -2759 1876	: 17	287.87 -107.27 -216.07	-1	036.45 316.63 166.61								
	T1C	T15	Lsb	Hab	Lic	Mic	Lh	d(IR)	Mh	4(m)	Fz	d(Fa)	Fy	4(Fy)
1 2 3 4 5 6 7 2 10 11 12 13	1.538 2.654 1.170 1.74 1.943 2.933 1.933 2.125 2.236 1.859 1.859	-1.567 -1.086 -1.128 -1.380	1614. -3181. -8709. -10988. 3214. 11435. 16977. 3627. -15283. -23173. -23173. 27086.	-21735.	7004, 4847, 1386, 1073, 8063, 11538, 15701, 7742, -16580, -251762, 28798, 38770,	15367. -4192. -16630. 11988.	-764- -6625- -15256- 1075- 11758- 17528- 1811- -14702- -2276- 5512- 9916- 23053-	1757.	-1166, #154, 1557, 19041, -1253, -17927, -26325, -6120, -29436, -34305, 11163, 21603.	-388. -2382. -3537. 1270. -165. -6950. -6952. -2597. 1279. -58. 1706.	\$80. 540. 684. 461. 3825. 447. 700. 833. 286.	-43. 21. 38. -67. 35. -28. 48. 0. -31.	-216. -313. -422. -166. 0. 51. -165. 52. 80. -174. -357. -436.	-00. 31. -32. -36. 94. -29. 62. -509. -27. -34.
	MOMENT Lid(0)			TO CYCLI		1 ()P CO	S COMPON	(TIME)						
	(4)	4(11)		d(fz)		(Fy)								
-99 86 -39	14.53 177.22 158.56	-1079 -2135 -3689	.21	132.77 84.82 351.19	-	65.42 321.69 -66.84								
•	TIC	T15	Lab	Psb	Llc	M 1c	Lh	d(Lh)	Mh	4(Ph)	fz	d(Fx)	Fy	4(Fy)
1 2 3 5 6 7 4 9 10 11 12 13	1.638 1.659 1.170 1.965 1.967 2.193 2.193 2.145 2.236 1.859 1.859	-1.480 -1.390 -1.401 -1.626 -1.587 -1.086 -1.128 -1.380 -2.077 -2.744 -1.355 -703 -1.45	7657. 4958. 5287. 6180. 8346. 11706. 9528. 13616. 14673. 7589. 5768.	-1527. -1530. -1620. 22. -1593. -2656. -2670. -2692. -2692. -2671. -1669. -2612.	254. -1303. -4698. 129. -240.	-6501. -3327. -6588. -13659. -5018. -3330. -2189. -16218. -19022. -6527. -8423.	10741. 7108. 6854. 1906. 17644. 18927. 13663. 19425. 20354. 10413. 8830.	-2057. -1124. :845. -170. -1315. 2361. -1556. 1306. 2361. -48. -1158. -962.	-829. -517. 5962. -83. -2578. -165. 1693. 4862. -973. -4985.	-234. -1768. -1902. -151. -151. -714. -503. -602. -929. 2001.	-181. -69. -112. -539. -137. -279. -279. -685. -154. -110.	42. 163. 141. -185. 115. 18. 21. -42. -77. -44. 31.	277. 195. 124. 75. 324. 526. 656. 576. 535. 257. 260.	-88. 0. 20. 11. -41. 46. -17. 23. -5. -61.
816#						••		1427.		1341.		101.		14.
HUS	HOAE PT	DERIVATI	VES DUE	TO CYC !!	C ANGLES	(3P SII	COMPONE	mT)						
	:d(0)			IOW3:4(71										
40	LN)	d (MA		d(Fg)	d	Fy)								
20	49.01 71.14 00.20	-6353 6260 -2928	.66 .12 .17	-505.26 -72.83	-	15.57 46.56 62.30								
•	TIC	TIS	Lab	Mab	Lic	# lc	Lh	4(I,h)	Mh.	4(14)	Fa	d(Fz)	Fy	d(Fy)
1 2 3 4 5 6 7 10 11 12 13	1.538 1.454 1.170 1.947 2.403 2.933 2.145 2.145 2.236 1.855 1.855	-1.40 -1.301 -1.525 -1.585 -1.128 -1.387 -2.744 -1.355 -2.745	2125. 2632. 762. 3519. 6132. 1601. 1604. 2692. 7181.	6920. 5287. 5287. 5083. 6481. 5488. 8722. 9567. 6554. 6931.	10373. 9783. 8387. 12385. 12245. 12325. 12713. 12713. 12743. 12747.	3834. 6132. 13869. 2107. -10012. -3046. -2153. -2153. 4555.	-1512. -2522. -2552. -2552. -2552. -2572. -4572. -4572. -4572. -4572. -4572. -4572.	-325. 1236. 1235. 1763. 1612. 618. -1218. -773. -210. -3078. 506.	8275. 4911. 4954. 8780. 123608. 117127. 147257. 7764. 24384.	-1355. -1426. -54. -97. -962. -1800. 1911. 2047. 64. -774. 569. 749.	-123. \$6. 272. -131. -620. -652. -227. -469. -106. -107.	190. 5. -76. -29. -10. -13. -13. -13. -13. -13. -13. -13.	-330. -285. -301. -287. -288. -372. -388. -768. -768. -325. -242. -43.	25. 27. -10. 12. 65. 35. -50. -60. -7. -70. -35.
KARMO	HIC COM	PONENT & :		WE #	BTHEME			HUB SHEA	R FORCES					
	TIC	T18	ME	LZE	M-C	£+C	ASC	X1C	Yec	X+C				
1 2 3 4 5 6 7 4 9 10 11 12 13	1.638 1.454 1.170 1.947 1.947 2.493 2.493 2.143 2.143 2.143 2.143 2.143 2.143 2.143	-1.40 -1.390 -1.601 -1.626 -1.626 -1.128 -1.380 -2.074 -2.074 -1.355 703 165	757. -169. 1339. 4257. -2817. -3005. 1169. 3034. -21. -5582.	502. 5010. 5526. 10653. 16776. 12660. 17073. 17810. 9181. 7369.	-754. -661. -1656. 1705. 560. -007. -1334. -1341. -1541. -952. -667.	1233. 1094. 1057. 1463. 2660. 1223. 2330. 2543. 600.	200. 41. -19. 257. 573. 656. 598. 491. 170. 216.	-255. -177. -217. -420. -212. -135. -126. -301. -522. -727. -241. -176.	77. 115. 109. 173. 66. -47. 2. 74. 39. 43. 75.	75. 108. 51. -119. 75. 108. 138. 137. 61. 37. 64.	٠			

Table I. (Concluded)

							MGLES	(HEA	COMPON	ENT)						
RNV1	:4(8) (10W2		4(F:			Fw}								
	LR) 102.2	1		m, 14.01		. 02		, y , 10 . 63			•					
62	30.3 100.2	•	-132	3.78	-19	. 91	3	85.76 77.34								
	71	-	718	La 7 379			Lie	H1d			h) h, -92	m 4(M)			1) F1 291	
3 5 6 7 8 9 10 11 12	2.7 2.8 1.3 2.7 3.6 2.6 2.8 2.7 2.7 2.5 2.6	36 -1 99 -1 69 -1 66 -1 76 -1 32 -1 32 -1	1.55 2.62 1.95 1.82 1.86 1.55 1.80 2.01 2.16 1.68 1.32 1.02	-276 -664 200 077 969 112 -646 228	71: 6. 166: 6. 26: 7: -63: 862: 8. 17: 7: -67: 803: 803: 810: 910:	10. 11 16. 11 15. (10. 11 16. 16 17. 17 169	579. 205. 205. 299. 854. 384. 384. 372.	1879; 2933; 1296; 259; 1199; 1018; 877; 929; 1666; 1793;	7989 71576 7. 159 9. 652 6051 651 6746 1. 153 9. 525	6141 3337 0. 231 8. <u>-781</u> 0. 101 7. 103 7. 213 6. 81	8. 20: 5. 100: 117: 5101: 027: 260: 250: 2. 49: 6. 87:	19231 15166 16. 332; 17. 2050 11. 61 18. 1939 121214 172906	51: 51: 51: 53: 53: 51: 51: 51: 51: 51: 51:	5 6 7 1 1	864 827 827 827 714 716 164 264 824	120 10 10 11 11 11 11 11 11 11 11 11 11 11
13 13	. 2.8°	37 -1	. 020	1819	4. 1121	3. 22	241.	1686	. 1612	6. 562 301		5. 3745 2881			1186 9.	i. 2 10
											••		•		••	••
20 PC					10 C1CL T)b:EW0			P COS	COMPONE	(KT)					•	
d(Lh)	d	(im)		d(Fx)		d(Fy)									
329 0 7760 -1889	. 27	5	061. 349. 695.	0 6	855.5 -398.6 128.4	•	990. -311. 574.	ě 1								
	716	71	8	Lab	Mab	LIG	:	Mic	Lh	d(Lh,	-	d(14h)	fa	d(Fa)	Fy	4(Fy)
ì	. 791 . 636	-1.5 -2.0	23	19145. 13369.	3673. 4991.	4024: 3112:	j	428. 286.	#857. 5536.	-1306. -676.	4562. 7313.	-955. -2189.	-666. -211.	14.	-864. -749.	-73.
	. 336 . 719 . 649	-1.1	20	7619. 19026. 27737.	5978. 6512. -259.	20471 5714	23	696. 339. 479.	1662. 11431. 19788.	#72. -669. 3148.	*094. i2170. i3149.	963. 527. 1436.	-11. -210. -402.	-84. -44.	-742. -742.	45. 200. -24.
3	. 606 . 644	-1.5	52 03	25419. 43332.	4630. 6930.	1863. 5108:	-11	106.	15174.	-2240.	11415. 10553.	-2054. -310.	-652. -344.	140.	-923. -4488.	-241.
	. 423 . 776	-2.1	6 #	24306. 25311. 22893.	8653. 8632.	3137 5288	5	J84. 663.	12362.	111.	4925.	1038.	-548. -572. -505.	-42. -43.	-1063. -112. -412.	-39. 3. -92.
1 2	.732 .532 .696	-1.6 -1.3 -1.0	23	22093. 16761. 12666.	6752. 528. 2230.	2916 2351	5	885. 191. 597.	14772. 8406. 7558.	1841. -314. -1661.	16315. 3048. 6.18.	+022. -3090. 1730.	-229. -353.	y5.	-276. -465.	-10.
2	. 437	-1.0		14747.	1077.	2506		453.	10265.	-229.	4394.	-753.	-301.		-411.	70.
G44										.+21.		1411.		#2.		203.
Milidi Milidi					TO CYCL IOW3:4(T.		.ES ()	P 31H	COMPONE	7						
d(Lh)	4	(m)		d(F=)		d(Fy)									
1346 3723		-20	120. 702.	69 11	-168.3 17.6	1	880. -636.	12								
6221	. 05	•	78 6 .	62	-197.2	•	-436. -61.	56								
	fic	71		Lab	Hsb	Lle		41c	Lh	4(65)	:18e	4(Hh)	FA	4(Fx)	Fy	d(Fy)
	. 791 . 036 . 336	-1.5 -2.0 -1.1	23 .	-3830. -6807. 13504.	10577. 4264. -1749.	-8177	. 3	554. 445. 691.	-7497. -6199. -8165.	.262. 4629. -2369.	4377. 4978. -4586.	402. 758. 4042.	193. 407. 258.	->¥. 17.	-3;3. 55. 484.	-143. -182. 27.
2.	7/17	-1.8	20 17	-6242. -1948.	9521. 20418.	-4801 15867	. 45	933. 018.	-9752. -9853.	-2369. -2569.	.69J. 19435.	-1774. 3794.	450. 450.	4:	- 234 .	54. -02.
2.	303	-1.5	D3 ·	5472. 8113.	16028. 5427.	-5582	. 15	186.	-9224.	859. 438.	14499. 5443.	-1986. -150>.	174.	-17. 37.	-443.	74. 43.
2.	776	-2.1		13675.	11361.	-5742 -8297	. 20	286	-12554. -12607. -13730.	-653. 66. -6637.	7910. 10161.	-929. -651.	267. 281.	-48.	-14).	-3. 39.
2.	732 532 636	-1.3	29	11368. -2116. -3910.	12795. 5773. 5532.	-5840 -1274 -221		113.	-2444. -3532.	2871. -630.	#653. *738. **77.	-750. -2370.	. 464. 34. 95.	75. -45. 43.	-441. -24. -167.	-47. 64.
	837	-1.0	16 .	-2590.		4472	. 10	536.	-5706.	-94.	•120.	-78. 1731.	57 .	-17. 30.	-204.	-9. 64.
														~.		
	ie ec	PUPQKE Tli	#T \$:	MIC	HAVB LZC	HQHQH 3 eN		• c	72C	IVE SIG	AR PORCI	is Inc				
2.	791	-1.5	7	8029.	9107.	533		730.	-521.	-349.	-322.	-55.				
2. 3. 2. 2.	036 336 799 649 644 644 776	-2.0: -1.9: -0.9: -1.5: -1.6: -2.0: -1.6:	13 15 17 17 12 13	6756, 7132, 10961, 10031, 11350, 3886, 13627, 13666,	3757. -1462. 8860. 19812. 16637. 4308. 10139. 11637. 11213.	557 -1033 1209 148 465 665 1073 1259	. 3	778. 124. 171. -26. 537. 655. 223. 275.	-659. -390. -491. -604. -551. -689. -685. -696. -581.	-78. 436. -326. -829. -572. -113. -369. -343.	-231. -132. -236. -316. -377. -619. -398. -617. -316. -261.	-133. -248. -188. -113. -80. -111. -180. -429. -162. -98.				-

Appendix

Table II. 33-Foot 3-Blade Rotor Reduced Experimental Nondimensional Hub and Swashplate Derivatives

TESTS 1	TIIRU 3		, •			-		
Vkt	mu	Р	(C1/siq)o	(Cm/slg)o	d(C1/s1s)/dT1c	d(Cm/sie)/dTlc	d(Cl/sig)/jTls	d(Cm/sig)/dTis
MEAN CO	EFFICIEN	TS						
49.38 48.04 50.03	7.489 7.772 1.056	2. 96 3. 95 3. 90	820331E-03 .10193135-02 .9864167E-02	.20654625-01 .37408315-01 .63964885-01	.13030516500 .15208541500 .2645796E-01	3712755500 4954206500 6342228600	.25023130000 .56739167000 .66204051500	.17549456599 .27143433599 .46385209599
3P COST	NE COFFF	ICIENTS						,
49.38 48.04 50.03	0.489 0.772 1.055	2. 05 3. 05 3. 90	.28157196-02 .30663345-01 .56168025-01	2986145-01 6086365-02 2280955-01	.11091044500 6110910500 4012371500	.81941497599 .31294151590 .30779437599	.52866434590 .3486586644 .64165435-01	- 1501081F99 . 301503F5F99 . 31311088F99
3P SINE	COEFFICE	EUTS						
49.38 48.04 50.03	0.489 0.772 1.056	2. 06 3. 05 3. 90	.3017952F-01 .1406796E-01 123561E-01	.85838095-04 .2654469E-01 .2740835E-01	8168219590 3768498590 1193993590	.17698125E00 4447447900 9903068E00	. 25005858590 4900858590 8581269690	.51105839500 .35140248500 .20058208500
2P CONT	RIBUTIONS	S TO 3P	COSINE COEFFICE	ENTS				
49.38 48.04 50.03	0.489 0.772 1.056	2.06 3.05 3.90	.1459778E-02 .2860401E-01 .4178821E-01	300205E-01 100772E-01 5226715-02	.14845935590 5279183590 7407719590	.81811755E00 .34444567E00 .21350684E00	.51926935699 .33012899696 .43687499500	2541285500 .30520471500 .58562691500
4P CONT	RIBUTIOUS	TO 3P	COSTHE COFFEED	EHTS				ť
49.38 48.04 50.03	0.489 0.772 1.056	2. 06 3. 05 3. 90	.1364940E-02 .2059327E-92 .1437981E-01	.1590514E-03 .3990801E-02 175828E-01	285309E-01 831736E-01 . 24953486E00	.12865165-02 3240425-01 .04107535-01	.88020675-02 2132855-01 3727009501	4062915-02 3701076-02 2705970599
2P CONT	RIBUTIONS	S TO 3P	SINE COEFFICIE	its.				
41.38 48.04 50.03	n. 489 n. 772 1. 056	2.06 3.05 3.90	.3002047E-01 .1007716E-01 .52267105-02	.14507785-02 .28604015-01 .41788215-01	8181176500 344457500 2135068500	. 14865035800 5279183890 7497719590	. 15811166666 3001067596 500110676	. 51000035000 . 32015808000 . 6268760000
4P CONT	DIBUTIOUS	S TO 3P	SINE COSSELCTS	ITS				
49.38 48.04 50.03	0.489 0.772 1.056	2. 06 3. 05 3. 90	.1590514E-03 .3990801E-02 175828E-01	1364945-02 2059335-02 1437985-01	.12965165-02 324042E-01 .9419753E-01	.28530005-01 .83173595-01 2495349600	-, 4051015-87 -, 3701075-08 -, 2724070500	. 88921475-07 2137355-01 3727090500

MEAN COEFFICIENTS

Vkt	mu	P	(Ct/sig)o	d(Ct/slg)/dTlc	d(Ct/sig)/dT1s
47.38	0.489	2. 96	.3592957E-01	1540560E00	.60113221500
48.04	0.772	3. 95	.5776814E-01	3960022E00	.10473371501
50.03	1.056	3. 90	.6085171C-01	6125930E00	.15828152501

Table II. (Continued)

т	E S	:TS	L	TH	ΩII	ı,

Vkt	mu	P	(C1/sig)o	(Cm/slg)o	d(C1/s1g)/dTlc	d(Cm/sig)/dTlc	d(Cl/sig)/dTls	d(Cm/sig)/dTls	
MEAN COEFFICIENTS									
60.91 59.96 60.02	0.403 0.800 1.113	1.56 2.61 3.47	.2403012E-02 .1141485E-01 .2607207E-01	.1571060E-01 .4026123E-01 .6748524E-01	.13104164E00 .9718814E-01 .7787731E-02	3392717E00 508G013EJ0 7524728E00	.3343877.E00 .54099371E00 .81122859E00	.20265071EJU .31738938EJO .39644724EJO	
3P COSIN	3P COSINE COEFFICIENTS								
60.91 53.96 60.02	0.403 0.800 1.113	1.56 2.61 3.47	408979E-02 .4320544E-01 .6780578E-01	325534E-02 137803E-01 803605E-02	.16832628EU0 7062136E00 1087078E01	.6175749E-01 .49119248E00 .61197081E00	1394675-01 .5777495_E00 .4184193JE00	125J857E00 .58548U74EJ0 .43998189EU0	
32 SINE	COEFFICI	ENTS	•						
60.91 59.96 60.02	0.403 0.300 1.113	1.56 2.61 3.47	.3091964E-02 .1935536E-01 .4609790E-02	320355E-02 .4103969E-01 .4681265E-01	356998E-01 5356578E00 683284E-01	.13937217E00 7275642E00 8338201E00	.12650440EUU 4847240EUU 9308216E00	.2190045E-01 .61401027E00 .67345373E00	
2P CONTE	RIBUTIONS	TÖ 3P	COSINE COEFFICI	ENTS					
60.31 59.96 60.02	0.403 0.800 1.113	1.56 2.61 3.47	364667E-02 .4212256E-01 .5730322E-01	317365E-02 165673E-01 632292E-02	.15414922E00 7168890E0u 9604438E00	.4371866E-01 .51342515E00 .34014958E00	.3976870E-02 .59587993E00 .54593651E00	1258251E00 .53510239E00 .68540174E00	
4P CONTE	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				·	
60.91 53.96 60.02	0.403 0.800 1.113	1.56 2.61 3.47	443118E-03 .1082879E-02 .1049657E-01	816885E-04 .278754 C-02 171313E-02	.1417705E-01 .1057518E-01 1266287E00	.1301883E-01 222327E-01 .27182123E00	179236E-01 181304E-01 1275172E00	.7393712E-05 .5037835E-01 2454198E00	
2P CONTRIBUTIONS TO 3P SINE COEFFICIENTS									
60.31 59.36 60.02	0.403 0.600 1.113	1.56 2.61 3.47	.3173652E-02 .1656782E-01 .6322320E-02	364667E-02 .4212256F-01 .5730922E-01	487187E+01 5134251EuU 3401496EUU	.15414922EU0 7168190EU0 9604488E00	.12582511EUU 535102-EUO 6854U17EUO	.3976870E-02 .59587990E-0 .54593051E-0	
4P CONTRIBUTIONS TO 3P SINE COEFFICIENTS									
60.91 53.96 60.02	0.403 0.300 1.113	1.56 2.61 3.47	316835E-04 .2787548E-02 171313E-02	.4431183E-03 103288E-02 104366E-01	.1301883E-01 222327E-01 .27182123E00	141771E-01 106752E-01 .12662&72E00	.7393712E-03 .5037835E-01 245+19.E00	179236E-01 121304E-01 1275172E00	

MEAN CORFEICIENTS

Vkt	· Mis	, Þ	(Ct/s1g)o	d(Ct/sig)/dTic	d(Ct/sig)/dTis
50.91	0.403	1.56	.36097925-02	.14441539F00	.47040510500
51.96	0.800	2.61	.30265405-01	119978F501	.17432016501
60.02	1.113	3.47	.84846425-01	2955961F01	.26182841501

Table II. (Continued)

TESTS 7 THẦU 11

						•		•
Vkt	mu .	Р	(Cl/slg)o	(Cm/slg)o	d(C1/sig)/dTlc	d(Cm/sig)/dTlc	d(Cl/slg)/dTls	d(Cm/slg)/dTls
MEAN CO	EFFICIENT	rs				·		
69.19	0.492	1.64	.8u58875E-03	.1999730E-01	.11860358E00	3836912E00	. 28848023E00	. 21240873E0J
68.45	0.495	1.65	.3258335E-02	.2513957E-01	.14463278EU0	3861839E00	.31902550E00	.21132041E00
69.30	0.784	2.28	.6093637E-02	.3706273E-01	.35297948-01	5221086EU0	.39983>43E00	.30855522E00
69.40	1.127	3.08	.5830754E-62	.6133706E-01	.16913915E00	7310211E00	.57383986EJO	.36132541E00
68.66	1.962	5.16	.3631558E-01	.15860364E00	1133799E00	1336775E01	.8G882577EUU	.56541215E00
3P COST	NE COEFFI	CTENTS						
69.19	0.432	1.64	602552E-02	537087E-02	.25009225E00	.9672309E-01	.4462440E-02	1921990EJJ
68.45	0.495	1.65	591741E-02	611911E-02	.20081683EU0	.11233289EU0	. 7033ú80E-02	2157446Euu
69.30	0.784	2.28	.3591573E-01	551338E-01	5639817EJU	.13733553E01	.89602779EUU	. 1919446E-01
69.40	1.127	3.08	.5324599E-01	954553E-02	9408543E00	.43297638EUO	.50326U5GE 0 0	.55409637E00
63.66	1.962	5.16	.7550972E-01	153007E-01	1098406E01	.2484045E-01	.82326241E00	.16054164201
3P SINE	COEFFICE	ENTS						
69.19	0.492	1.64	.4541574E-02	667506E-02	611440E-01	.25128920E00	.17007535E00	.2392286E-01
68.45	0.495	1.65	.5460545E-02	873616E-02	971595E-01	.26042222E03	.17258944E00	.7860886E-02
69.30	0.784	2.28	.4915649E-01	.3565371E-01	1228329E01	5975977EUO	121075UEOJ	.10110584E01
69.40	1.127	3.08	.2100803E-01	.3939537E-01	5686763E00	6793195E00	6541374E00	.43709351800
68.66	1.962	5.16	.3885412E-02	.10435449E00	-,6897373EU0	1910527E01	9133628E00	.43051659200
2P CONTI	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
69.19	0.432	1.64	635029E-02	495622E-02	.25069072E00	.7893353E-01	.1719265E-01	1811372E00
68.45	0.495	1.65	735178E-02	578983E-C2	.23061952EUU	.10474619E00	.7447283E-02	1941670E00
69.30	0.784	2.28	.3578772E-01	521701E-01	5807897E00	.13011419E01	.95454312E00	.7013474E-01
69.40	1.127	3,08	.4632068E-01	152768E-01	8100869E00	.50082735EU0	.47017703EJ0	.60441689E00
68.66	1.962	5.16	.8993211E-01	959308E-G2	1504467E01	.55728888E00	.62688950E00	.1289389GEU1
4P CONT	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
69.19	0.492	1.64	.3247707E-03	414647E-03	598473E-03	.1778956E-01	127302E-01	110618E-01
68.45	0.495	1.65	.1434375E-02	329283E-03	298027E-01	.7586702E-02	413603E-03	215776E-01
69.30	0.784	2.28	.1280095E-03	301364E-02	.1680738E-01	.7221332E-01	565153E-01	509403E-vl
69.40	1.127	3.08	.6325310E-02	.57312795-02	1307674E00	678509E-01	.3308352E-01	497205E-01
68.66	1.962	5.16	144224E-01	57º766E-02	.40606024E30	3324484201	.19637291E0U	.37002677EJ0
2º CONTI	RIBUTIONS	TO 3P	SINE COEFFICIEN	ITS				•
63.19	0.492	1.64	.4956221E-02	635C29E-02	703335E-01	.25009072600	.18113716E00	.1719205E-01
68.45	0.495 ′	1.65	.5789827E-02	735178E-C2	-:1047462E00	.23061952E00	.19416701EJÚ	.74472d5E-02
69.30	0.784	2.28	.5217013E-01	.3578772E-01	1301142EJ1	5807897E00	701347E-U1	.95454512EJO
69.40	1.127	3.08	.1527681E-01	.46320585-01	5008273E00	8100869E00	6044169E00	.47017703E00
68.66	1.962	5.16	.9593077E-02	.39332115-01	3572889Euù·	1504467EU1	1289390Eu1	.62688950E00
4P CONTE	RIBUTIONS	TO 3P	SINE COEFFICIEN	ітѕ				
υ 9.19	0.492	1.64	414647E-03	324771E-03	.1778956E-01	.5984727E-03	110618E-01	127302E-U1
68.45	0.495	1.65	329283E-03	145437E-02	.7586702E-02	.2980269E-01	215778E-01	413603E-03
69.30	0.784	2.28	3013642-02	1280005-03	.7221332E-01	16208UE-UI	509403E-01	565153E-01
69.40	1.127	3.08	.5731279E-02	6923315-92	678503E-01	.13076741E00	497205E-U1	.3308352E-01
68.66	1.962	5.16	57076GE-02	.1442238E-01	3324484500	4060602E00	.37602677E00	.19637291E00

ME AL CORFFICIENTS

	Vkt	mu	P	(Ct/slg)o	d(Ct/sig)/dTlc	d(Ct/sle)/dT1s
	69, 19	0. 492	1.64	. 47208215-01	2439384500	.61516919500
_	68.45	0.495	1. 65	.52729245-01	1440561500	. 63631659690
	69.30	0.784	2.28	.61537015-01	4444337560	. 10545042501
	63.40	1. 127	3.08	.87008085-01	7845228500	. 17700460501
	68.66	1. 962	5.16	.11889324500	1455323001	.35227101601

Table II. (Continued)

TESTS 12 THRU 16

Vkt	mu.	P	(C1/s1g)o	(Cm/sig)o	d(C1/sig)/dTlc	d(Cm/sig)/dTlc	d(Cl/sig)/dTls	d(Cm/sig)/dTls
MEAN CO	EF.FICIENT	s	•		•			
80.59 82.76 82.78 82.68 82.88	0.399 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	.1032983E-02 .4411488E-02 .1306252E-01 .2576824E-01 .7974569E-01	.1482020E-01 .2064027E-01 .3219403E-01 .5145846E-01 .16050164E00	.17258398E00 .13769369E00 .4329397E-01 383394E-02 .14115982E00	3237962E00 4057371E00 4297338E00 7503947E00 1020214E01	.27733173E00 .36044270E00 .67424461E00 .73456505E00 .17533829E01	.21179042E00 .25731153E00 .32490683E00 .55250966E00 .10963940E01
3P COST	NE COEFFI	CIENTS						
80.59 82.76 82.78 82.68 82.88	0.399 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	139487E-02 341148E-02 143435E-02 .5346713E-01 .8956504E-01	275979E-03 521593E-02 443642E-01 26556E-01 333784E-01	.10502063E00 .17188976E00 .32394019E00 6523986E00 1372814E01	273G52E-01 .11277171E00 .95095315E00 .74483511E00 .48406192E00	.1675331E-02 383848E-02 .78863870E00 .12304421E01 .68619402E00	671289E-01 156090JE00 0602053E00 .69327108E00 .21153485E01
3P SINE	COEFFICI	ENTS						
80.59 82.76 82.78 82.68 82.88	0.393 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	.2863603E-02 .4039486E-02 .5116858E-01 .3147920E-01 278148E-01	363798E+02 346338E+02 677517E-02 .6263485E-01 .13230582E00	547752E-01 687776E-G1 1098G32E01 8575025EC0 4141759E00	.13436925E00 .15529825E00 .36459302E00 1099714E01 1852068E01	.7240516E-J1 .17443852E00 .81762174EJ0 59189J3E00 1010692E01	527112E-01 .1380465E+01 .67357172E60 .93064353E00 .14216451E61
2P CONT	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
80.59 82.76 82.78 82.68 82.88	0.399 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	251642E-02 343743E-02 410476E-02 .5806099E-01 .11093543E00	156979E-02 462771E-02 477664E-01 290179E-01 278184E-02	.11959494E00 .16359401E00 .34426661E00 8760564E00 1612441E01	.1370500E-01 .9077465E-01 .10247926E01 .80116883E00 .44911890E00	255179E-01 .7985082E-02 .73110521E00 .10805428E01 .10539195EU1	697670E-01 1655683Eu0 7429425Eu0 .64258070E00 .15620201EJ1
4P CONT	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
30.59 82.76 82.78 82.68 82.88	0.399 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	.1121556E-02 .2594308E-04 .2670410E-02 457386E-02 213734E-01	.1293812E-02 588220E-03 .3402188E-02 .2461337E-02 305966E-01	146743E-01 .8295758E-02 203264E-01 .22365761E30 .23962710E30	410702E-01 .2199706E-01 758395E-01 563337E-01 .3494302E-0.	.2719325E-01 118216E-01 .5753343E-01 .14989950E00 36772>>E00	.2638136E-42 .8870251E-62 .746792-E-61 .5069056E-61 .5515284.E6J
2P CONT	RIBUTIONS	ТО 3Р	SINE COEFFICIEN	its				
80.59 82.76 82.78 82.68 82.88	0.399 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	.1569791E-02 .4627706E-02 .4776639E-01 .2901787E-01 .2781839E-02	251642E-02 343743E-02 413476E-02 .5806.93E-01 .11033545E00	137050E-G1 307747E-01 1024793E01 8011683E00 4491183E00	.11969494EU0 .16359401EU0 .34426661EUU 8760564E00 1612441E01	.6976702E-01 .16556826E00 .74294253E00 6425807E00 1562020E01	255179E-61 .7983062E-02 .73110521E00 .10805428E61 .10539135E61
4P CONT	RIBUTIONS	TO 3P	SINE COEFFICIEN	TS				•
80.59 82.76 82.78 82.68 82.88	0.393 0.528 0.808 1.121 2.132	1.35 1.53 2.03 2.64 4.67	.1293812E-02 588220E-03 .340218&E-02 .2461337E-02 305966E-01	112156E-02 253491E-04 267041E-02 .4573360E-02 .2137039E-01	410702E-01 .2199706E-01 738595E-01 563357E-01 .3494302E-01	.1467431E-01 829570E-02 .2032641E-01 223657GE00 2396271E00	.2638138E-02 .8370251E-02 .7467924E-01 .5069056E-01 .55132841E00	.2719325E-01 118210E-01 .5753349E-01 .14983990EC0 3677255E00

MEAN COEFFICIENTS

Vkt	mu	P	(Ct/sig)o	d(Ct/sig)/dTlc	d(Ct/sig)/dTls
60.59	0.399	1.35	.3048290E-01	1284578E00	.63043114E00
82.76	0.528	1.53	.173390GE-01	2577738-01	.48767308EJO
62.78	0.808	2.03	1405772-02	.27065234E00	.81314331EUJ
82.68	1.121	2.64	.2261591E-01	3202319EJO	.2102665jEul
32.88	2.132	4.67	.26031450E00	2401947E01	.42U39213E01

` Table II. (Continued)

TESTS 13 THRU 16 (CONTINUED)

Vkt	mu	P	(C1/s1g)o	(Cm/sig)o	d(Cl/slg)/dTlc	d(Cm/sig)/dTlc	d(Cl/sig)/dTls	d(Cm/sig)/dTls
MEAN COL	EFFICIENT	rs						
82.76 82.78 82.68 82.88	0.528 0.803 1.121 2.132	1.53 2.03 2.64 4.67	593986E-02 674396E-02 9128045-02 .5556752E-02	.1324911E-01 .2350217E-01 .4247059E-01 .7117503E-01	.31034385E00 .31970269E00 .40083467E0u .83995364E00	1251287E00 1958319E00 4111039E00 4547941E00	.0000791E-01. .8773512E-01. .1918623JE03. .95290724E00	.42009600E00 .58018172E00 .88495326E00 .27034224E01
39 COS14	NE COEFFI	CIENTS				•		
82.75 82.78 82.68 82.88	0.528 0.808 1.121 2.132	1.53 2.03 2.64 4.67	.2738794E-02 .535857GE-02 .1994442E-01 692035E-01	337690E-02 204385E-01 .3584458E-02 .15136940E00	1084595E00 1102355E00 4988940E00 .10408667E01	.9707818E-01 .51511124EJ0 133208E-J2 .16041083EJ1	.4775926E-01 .20637954E00 .9387960E-01 5080818E01	966285E-U1 10691795U0 .47802473EUU .170479515U1
32 SINE	COEFFICI	ENTS						
82.76 82.78 32.68 82.88	0.528 0.808 1.121 2.132	1.53 2.03 2.64 4.67	.1566076E-02 .1691216E-02 918561E-02 .1034844E-01	170365E-02 .8090320E-02 .2917099E-01 .19708266E00	815659E-01 1128633E00 244214E-01 .18723729E01	.9904531E-01 490279E-01 4432640E00 3366207E01	591546E-01 1u66552E00 3274368E00 .47922334E00	.7601577E-01 .3860a707E00 .15724833E00 .46082153E01
SP CONTR	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				2
82.76 82.78 82.68 82.88	0.528 0.808 1.121 2.132	1.53 2.03 2.04 4.67	.5175703E-03 .6724448E-02 .2455771E-01 .6393959E-01	247149E-02 110649E-01 .8885036E-02 .7051048E-01	470708E-02 800817E-01 4710790E00 1162670E01	.8932204E-01 .31398727E00 .1154465E-01 1341323E00	.6188751E-01 .29623330E00 .12556397E00 2363012E00	18737UE-U1 131389E-03 .40273081EU0 .01278488EU0
AP CONTR	RIBUTIONS	TO 3P	COSINE COEFFICI	ENTS		•	,	
32.76 32.78 32.68 32.88	0.528 0.808 1.121 2.132	1.53 2.03 2.64 4.67	.2221224E-02 136587E-02 461329E-02 1331431E00	905411E-03 937354E-02 390578E-03 .8085832E-01	1037524E00 301538E-01 278150E-01 .22035370E01	.7756137E-02 .20112397E00 128767E-01 .17382406E01	141283E-01 838538E-01 316844E-01 4844517E01	778916E-01 100786520J .7529390E-01 .10920082201
2P CONTR	RIBUTIONS	TO 3P	SINE COEFFICIEN	тз		•		
82.76 82.78 82.68 32.88	0.528 0.808 1.121 2.132	1.53 2.03 2.64 4.67	.2471487E-02 .1106485E-01 888504E-02 705105E-01	.51757G3E-03 .G724448E-02 .2455771E-01 .G393959E-01	893220E-01 3139073EU0 115447E-01 .13413231E00	470708E-02 800317E-01 4710790E00 1162670E01	.1873697E-01 .1313892E-03 4027308E00 6127849E00	.6188751E-01 .29623336200 .12556397200 2363012200
NP CONTR	RIBUTIONS	TO 3P	SINE COEFFICIEN	TS		į.	•	
82.76 82.78 82.68 82.88	0.528 0.808 1.121 2.132	1.53 2.03 2.64 4.67	905411E-03 937364E-02 300578E-03 .8085892E-01	222122E-02 .1365872E-02 .4613288E-02 .13314307E00	.7756137E-02 .20112397E00 128767E-01 .17382406E01	.10375239E00 .3015381E-01 .2781500E-01 2203537E01	778916E-01 1067865E00 .7529398E-01 .10920382E31	141283E-01 898538E-01 316844E-01 4244517E01

Table II. (Continued)

Vkt	mu .	Р	(Cl/slg)o	(Cm/șlg)o	d(Cl/slg)/dTlc	d(Cm/sig)/dTlc	d(C1/sig)/dTls	d(Cm/sig)/dTls
MEAN CO	EFFICIENT	rs						
81.57 81.26	0.405 0.521	1.35 1.53	.2784783E-02 .4357254E-02	.1360329E-01 .1926430E-01	.16132172E00 .13745586E00	3080573E00 3665135E00	.31693537E00 .34294055E00	.21583347E00 .23415442E00
3P COSI	NE COEFF	ICIENTS		•				
81.67 81.26	0.405 0.521	1.35 1.53	171150E-02 199379E-02	510068E-03 514499E-02	.9539421E-01 .13954450E00	283891E-01 .10008104E00	312629E-01 .8515966E-02	749150E-01 1321326E00
3P SINE	COEFFIC	ENTS						
51.67 81.26	0.405 0.521	1.35 1.53	.3232018E-02 .5476229E-02	311783E-02 255196E-02	577697E-01 1046130E00	.10634303E00 .12991769E00	.9400342E-01 .19142640E00	711331E-01 .2088910E-01
2P CONTI	RIBUTIONS	S TO 3P	COSINE COEFFIC	IENTS				
81.67 81.26	0.405 0.521	1.35 1.53	241467E-02 227288E-02	187104E-02 531061E-02	.10085852E00 .13473110E00	.1469033E-01 .10234704E00	511980E-01 .1770253E-01	844592E-01 1617795Eu0
4P CONT	RIBUTIONS	S TO 3P	COSINE COEFFIC	IENTS				
81.67 81.26	0.405 0.521	1.35 1.53	.7031666E-03	.1360975E-02 .1656187E-03	547441E-02 .4813407E-02	430794E-01 226599E-02	.1993512E-01 918657E-02	.9544226E-02 .2964689E-01

0.405 1.35 0.521 1.53

2P CONTRIBUTIONS TO 3P SINE COEFFICIENTS

4P CONTRIBUTIONS TO 3P SINE COEFFICIENTS

.1360375E-02 -.703167E-03 -.430794E-01 .5474406E-02 .1656187E-03 -.273087E-03 -.226599E-02 -.461341E-02 0.405 1.35 0.521 1.53 .9544226E-02 .1993512E-01 .2964689E-01 -.918657E-02

.10336862E00

.13473110EU0

.8445920E-01

.16177951EJO

-.51148úE-ú1

.1770253E-01

.1871043E-02 -.241467E-02 -.146305E-01 .5310610E-02 -.227238E-02 -.1623470E00

MEAN COEFFICIENTS

81.67

61.26

TESTS 17 THRU 18

Vkt P mu (Ct/sig)o d(Ct/sig)/dTlc d(Ct/sig)/dTls 0.405 0.521 .1604033E-01 .28033137E00 .52087746E00 .2015156E-02 .39256369E30 .57774608E00 81.26 1.53

Appendix

Table II. (Continued)

TESTS 17 THRU 18 (CONTINUED)

Vkt	mu	P	(Cl/slg)o	(Cm/sig)o	d(C1/s1g)/dT1c	d(Cm/sig)/dTlc	d(Cl/sig)/dTls	d(Cm/sig)/dTls
HEAN COE	EFFICIENT	s						
81.67 81.26	0.405 0.521	1.35 1.53	579334E-02 815538E-02	.7743779E-02 .9859414E-02	.32906683E00 .36623778E00	320296E-01 626223E-01	.5214247E-01 .3792717E-01	.34483362E00 .36814829E00
3P COSIN	IE COEFFI	CIENTS						
81.67 81.26	0.405 0.521	1.35 1.53	.722040GE-03 .1433576E-02	.4618338E-03 .2151351E-03	237319E-02 601457E-01	.1241689E-01 .3059647E-01	.4810804E-01 .1177441E-01	.1564613E-01 .2015235E-01
3P SINE	COEFFICI	ENTS						•
81.67 81.26	0.405 0.521	1.35 1.53	.7298809E-03 822009E-03	.9578392E-03 .1126804E-02	363183E-01 .2303934E-01	225708E-01 144350E-01	.5771948E-02 486685E-01	.4124273E-01 .6024476E-01
2P CUNTR	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
81.67 81.26	0.405 0.521	1.35 1.53	.8399399E-03 .1280190E-02	134024E-03 .5185720E-03	124720E-01 372903E-01	.24367G2E-01 .3778565E-02	.4467538E-01 .3600958E-01	.4937092E-02 .3441042E-01
4P CONTR	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS			. •	
81.67 81.5	0.405 0.521	1.35	117899E-03 .1535857E-03	.5058573E-03 303437E-03	.1003879E-01 228554E-01	119507E-01 .2681701E-01	.3432656E-02 242352E-01	.1070904E-01 142581E-01
2P CONTR	I BUT I ONS	TO 3P	SINE COEFFICIEN	ітз				
81.67 81.26	0.405 0.521	1.35 1.53	.1340235E-03 518572E-03	.8399399E-03 .1280190E-02	243676E-01 377857E-02	124720E-01 372903E-01	493709E-02 344104E-01	.4467538E-01 .3600958E-01
4º CONTR	BUTIONS	TO 3P	SINE COEFFICIEN	ітз		•		
81.67 81.20	0.405 0.521	1.35 1.53	.5958573E-03 303437E-03	.1178993E-03 153386E-03	119507E-01 .2681791E-01	100988E-01 .2285537E-01	.1070904E-01 142581E-01	.3432656E-02 242352E-01

Table II. (Continued)

ı	TESTS	19 THRU	22	·. · ·					
•	Vkt	mu	P	(Cl/sig)o	(Cm/sig)o	d(C1/s1g)/dTlc	d(Cm/sig)/dTlc	d(Cl/slg)/dTls	d(Cm/sig)/dTls
	MEAN CO	EFFICIENT	rs						
	89.80 39.37 89.56 88.28	0.494 1.073 1.081 2.021	1.41 2.39 2.40 4.20	982G37E-04 .1356343E-01 .2067958E-01 .3331621E-01	.1952910E-01 .6393240E-01 .6830626E-01 .15553596E00	.15746173E00 .2718448E-01 .10028904E00 .10473588E00	3982846E00 7798494E00 6468438E00 1192238E01	.25077321E00 .59056655E00 .62772764E00 .10600911E01	.25116561E00 .59511967E00 .65849057E00 .86400222E00
	3P COST	NE COEFFI	ICIENTS						
	89.80 89.37 89.56 88.28	0.494 1.073 1.081 2.021	1.41 2.39 2.40 4.20	376445E-02 ,7229704E-01 .7589960E-01 .10866685E00	219655E-02 769646E-01 766155E-01 905624E-01	.21503480E00 1193450EU1 9168134E00 1435267E01	201524E-01 .16816868E01 .14102538E01 .98600980E0G	774065E-02 .11639402E01 .13422676E01 .59018816E00	1659165E00 .12620252E00 .12673297E00 .10959441E01
	3P SINE	COEFFICI	ENTS			•			
	89.80 89.37 89.56 88.28	0.494 1.073 1.081 2.021	1.41 2.39 2.40 4.20	.5313607E-02 .7329647E-01 .6487887E-01 221607E-01	591003E-02 .7122198E-01 .7246593E-01 .9352474E-01	1044343E00 159693EJ1 1213527E01 2378126E00	.21456102E00 1236565E01 8420695E00 1709971E01	.19148642E00 1651094E00 1916178Eu0 1179223EJ1	1035563E00 .12775729E01 .15084219E01 .10599143E01
	2P CONT	RIBUTIONS	TO 3P	COSINE COEFFICE	ENTS				,
	83.80 89.37 89.56 88.28	0.494 1.073 1.081 2.021	1.41 2.39 2.40 4.20	483724E-02 .7175951E-01 .7418276E-01 .10109580E00	375508E-02 751306E-01 767472E-01 342008E-01	.21479791E00 1218007E01 8794415E00 1572619E01	.4214096E-01 .16393396E01 .13118905E01 .61191121E00	556485E-01 .12207566E01 .14253443E01 .82505123E00	1787015E00 .14569597E00 .15917538E00 .11375836E01
	4P CONT	RIBUTIONS	TO 3P	COSINE COEFFICI	ENTS				
	89.80 89.37 89.56 88.28	0.494 1.073 1.081 2.021	1.41 2.39 2.40 4.20	.1072793E-02 .5375251E-03 .1716854E-02 .7571057E-02	.1558526E-02 185498E-02 586831E-02 56-016E-01	.2363897E-03 .1855752E-01 373719E-01 .13735203E00	622334E-01 .4234712E-v1 .9336330E-0 .37409859E0L	.4790780E-01 568164E-01 830772E-U1 2348631EJ0	.1278493E-01 194134E-01 324424E-01 416396E-01
	2P CONT	RIBUTIONS	T O 3P	SINE COEFFICIEN	ITS				,
	89.80 89.37 89.56 88.28	0.434 1.073 1.081 2.021	1.41 2.39 2.40 4.20	.3755081E-02 .7513055E-01 .7074719E-01 .3420082E-01	483724E-02 .7175951E-01 .7418 ² 76E-01 .10105580E00	421410E-01 1639340E01 1311890E01 6119112E00	.21479791E00 1218007E01 3794415E00 1572619E01	.17870148E00 1456960E00 1591754E00 1137584E01	556485E-01 .12207500E01 .14253448E01 .82505123E00
	4P CONT	RIBUTIONS	TO 3P	SINE COEFFICIEN	its				
	89.80 89.37 89.56 88.28	0.494 1.073 1.081 2.921	1.41 2.39 2.40 4.20	.155852GE-02 133408E-02 586831E-02 563G1GE-01	107279E-02 537525E-03 171633E-02 757136E-02	622934E-01 .423+712E-01 .9836330E-01 .37409859E00	236890E-03 185575E-01 .3737193E-01 1373521E00	.1278493E-01 194134E-01 324424E-01 416396E-01	.4790780E-01 568104E-01 830772E-01 2348031E00

MEAN COEFFICIENTS

Vkt	mu	Ρ	(Ct/sig)o	d(Ct/sig)/dTlc	d(Ct/slg)/dTls
89.80	0.434	1.41	.3561616E-01	955088E-01	.69395010E00
89.37	1.073	2.39	.6416470F-01	377829E-01	.10023455E01
-89.56	1.021	2.40	.12794817E00	7174280E00	.12078376E01
88.28	2.021	4.20	.17669031E00	1540536E01	.37546071E01

Appendix

Table II. (Continued)

TESTS 23 THRU 2	TF515	25	THKU	1 44
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Vkt	mu	P	(Cl/sig)o	(Cm/sig)o	d(C1/s1g)/dTlc	d(Cm/sig)/dTlc	d(C1/s1g)/dTls	d(Cm/sig)/dTls
MEAN COE	FFICIENT	.s						
101.91 101.87	0.411 0.513	1.25 1.36	.2085215E-02 .6816802E-02	.1330827E-01 .1858447E-01	.13532825E00 .11838748E00	3495957E00 3579674E00	.30187152E00 .33170349E00	.20343816E00 .27461851E00
3P COSIN	IE COEFFI	CIENTS					•	
101.91 101.87	0.411 0.513	1.25 1.36	+.130437E-02 317332E-04	558627E-03 310845E-02	.8492998E-01 .8597856E-01	551789E-02 .2166725E-01	413108E-01 .5563402E-02	262348E-01 1252814E00
3P SINE	COEFFICI	ENTS	•	•				
101.91 101.87	0,411 0.513	1.25 1.36	.8029966E-03 .2285543E-02	107463E-02 373636E-02	692323E-02 640124E-01	.6520932E-01 .15971493E00	.5619959E-01 .9665475E-01	291356E-01 600944E-01
2P CONTR	RUTIONS	TO 3P	COSINE COEFFICE	ENTS			,	-
101.91 101.87	0,411 0,513	1.25 1.36	118950E-02 188405E-02	680812E-03 269700E-02	.7506965E-01 .12284674E00	.7026987E-03 .4283980E-01	352262E-01 272655E-01	412172E-01 1109581E00
4P CONTR	IBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
191.91 101.87	0.411 0.513	1.25 1.36	114869E-03 .1852315t-02	.1221850E-03 411454E-03	.9860351E-02 36.682E-01	622059E-02 211726E-J1	609059E-02 3282889E-01	.1498241E-01 143133E-01
2P CONTR	IBUTIONS	TO 3P	SINE COEFFICIEN	ITS .	•			
101.91 101.87	0,411 0,513	1.25 1.36	.6808116E-03 .2696997E-02	118950E-02 188405E-02	702693E-03 428396E-01	.7506965E-01 .12284674E00	.4121718E-01 .11096809E00	352202E-01 272655E-01
4P CONTR	IBUTIONS	TO 3P	SINE COEFFICIEN	ITS				
101.91 101.87	0.411 0.513	1.25 1.36	.1221850E-03 411454E-03	.1148688E-03 185231E-02	622059E-02 21172GE-01	986033E-02 .3686818E-01	.1498241E-01 143133E-01	609059E-02 .3282889E-01

MEIN COEFFICIENTS

Table II. (Continued)

TESTS	23	TUDII	74	(CONT)	NUFD)

			:					
Vkt	mu	P	(Cl/sig)o	(Cm/sig)o	d(C1/sig)/dTlc	d(Cm/sig)/dTlc	d(C1/sig)/dTls	d(Cm/sig)/dTls
MEAN CO	EFFICIENT	rs			·		•	
101.91 101.87	0.411 0.513	1.25 1.36	413447E-02 464446E-02	.6438055E-02 .1127979E-01.	.33162664E00 .31328449E00	172915E-02 379873E-01	.1934517E-J1 311947E-01	.32668542E00 .39274J0JE00
3P COSI	NE COEFFI	CIENTS						
101,91 101,87	0.411 0.513	1.25 1.36	419971E-03 826746E-03	821873E-03 158834E-02	.1777830E-01 .5192411E-01	.4163380E-02 .5218640E-01	.1097364E-01 .5166182E-01	421822E-01 365628E-01
3P SINE	COEFFICE	ENTS						
191.91 101.87	0.411 0.513	1.25 1.36	.9979679E-03 .1483047E-02	463628E-03 .1170537E-02	268157E-01 583589E-01	.1853935E-01 .1529134E-01	.3793488E-01 .3107228E-01	.4493540E-02 .7963146E-01
2º CONT	RIBUTIONS	5 TO 3P	COSINE COEFFIC	ENTS				,
101,91 101,87	0.411 0.513	1.25 1.36	441800E-03 .1718955E-03	909920E-03 153560E-02	.1815883E-01 .3360772E-01	.1548356E-01 .5527264E-01	.7733590E-02 .6574664E-01	400585E-01 538176E-01
4P CONT	RIBUTIONS	TO 3P	COSINE COEFFIC	IENTS				
101,91 101,87	0.411 0.513	1,25 1,36	.2182872E-04 998642E-03	.8804737E-04 526444E-04	38052+E-03 .1831633E-01	1132G2E-01 308625E-02	.3: 3050E-02 14C848E-01	212366E-02 274527E-02
2P CONT	RIEUTIONS	5 TO 3P	SINE COEFFICIES	NTS				,
101.91 101.87	0.411 0.513	1.25 1.36	.9099205E-03 .1535G91E-02	441800E-03 .1718055E-03	15489GE-01 552725E-01	.1815823E-01 .3360772E-01	.4005854E-01 .338 ¹ 755E-01	.7733590E-02 .6574604E-UI
4P CONT	RIBUTIONS	S TO 3P	SINE COEFFICIE	NTS	•			
101.91 101.87	0.411 0.513	1.25	.8804737E-04 526444E-04	218287E-04 .9986418E-03	113262E-01 308625E-02	.3805240E-03 183164E-01	212368E-02 274527E-02	.3240050E-02 140848E-01

Appendix

Table II. (Continued)

TEST	2.1	25	THI	RLI	26

Vkt	mu	P	(Cl/sig)o	(Cm/sig)o	d(C1/sig)/dT1c	d(Cm/slg)/dTlc	d(Cl/sig)/dTis	d(Cm/sig)/dTls
MEAN CO	FFICIENT	rs						
102.93 102.85	0.413 0.521	1.25 1.36	.3121854E-03 .2500684E-02	.1418644E-01 .2198156E-01	.19402478E00 .15796311E00	2721609E00 4092504EJ0	.30131444E00 .3227658úEu0	.31188824E00 .29630681EJ0
3P COSIN	IE COEFFI	CIENTS						
102.93 102.85	0.413 0.521	1.25 1.36	148194E-02 154243E-02	.3728031E-03 112702E-02	.7179691E-01 .14046700E00	209011E-01 305944E-01	703061E-01 107454E-01	.2218105E-02 959237E-01
3P SINE	COEFFICI	ENTS		•				,
102.93 102.85	0.413 0.521	1.25 1.36	553719E-05 .4322153E-02	914342E-03 355463E-02	.3539424E-01 739731E-01	.3513376E-01 .12880735E00	.5355704E-01 .12375083E00	543300E-01 765539E-01
2P CONTR	BUTIONS	TO 3P	COSINE COEFFICE	ENTS	:	•	•	
102.93 102.85	0.413 0.521	1.25 1.36	119814E-02 254853E-02	.1891701E-03 272459E-02	.5346533E-01 .13463717E00	281477E-01 .2168934E-01	623180E-01 436497E-01	250095E-01 1098375E00
4P CONTR	BUTIONS	TO 3P	COSINE COEFFICE	ENTS			•	•
102.93 102.85	0.413 0.521	1.25 1.36	283799E-03 .1006098E-02	.1836329E-03 .1597565E-02	.1833157E-01 .5829826E-02	.7246572E-02 522838E-01	798802E-02 .3290423E-01	.2788757E-01 .1391355E-01
2P CONTR	BUTIONS	TO 3P	SINE COEFFICIEN	TS				•
102.93 162.85	0.413 0.521	1.25 1.36	189170E-03 .2724588E-02	119814E-02 254853E-02	.2814767E-01 216395E-01	.5346533E-01 .15463717E00	.2566947E-01 .1098372.E00	623180E-01 430497E-01
4P CONTR	BUTIONS	TO 3P	SINE COEFFICIEN	тѕ				
102.33 102.85	0.413 0.521	1.25 1.36	.1836329E-03 .1597565E-02	.2837989E-03 100610E-02	.7246572E-02 522838E-01	183313E-01 582983E-02	.2788757E-01 .1391355E-01	7902E-U2 .3290423E-U1

18.

MEAL CORFFICIENTS

 Vkt
 mu
 P
 (Ct/slg)o
 d(Ct/slg)/dTlc
 d(Ct/slg)/dTlc
 d(Ct/slg)/dTlc

 102.93
 0.413
 1.25
 .3729367E-01
 .10526204E00
 .73795962E00

 102.85
 0.521
 1.36
 .3440005E-01
 .18392281E00
 .82425862E00

Table II. (Continued)

TESTS 25 THRU 26 (CONTINUED)

Ykt	mu	P	(C1/s1g)o	(Cm/sig)o	d(C1/sig)/JTlc	d(Cm/sig)/dTle	d(C1/sig)/dTis	d(Cm/sig)/dTls
HEAN COE	FFICIENT	s						
102.93 102.85	0.413 0.521	1.25 1.36	304865E-02 479345E-02	.7974801E-02 .1246010E-01	.29986793E00 .35499679E00	281317E-01 1268659E00	.5906746E-01 .8961197E-01	.42081827Euù .38780461EuQ
3P COSIN	E COEFFI	CLENTS						
102.93 102.85	0.413 0.521	1.25 1.36	.2900053E-03 .6159413E-03	902118E-03 372193E-03	.3086245E-02 200791E-02	.1006556E-01 .3110469E-01	.3357067E-01 .4758927E-01	337964E-01 .1308727E-02
3P SINE	COEFFICI	ENTS						
102.93 102.85	0.413 0.521	1.25 1.36	.1038997E-02 .1523974E-02	.4247175E-03 .6223557E-03	231666E-01 509955E-01	.9760885E-02 766412E-02	.2858867E-01 .6713951E-02	.4661528E-01 .24220+2E-01
2P CONTR	IEUTIONS	TO 3P	COSINE COEFFICI	ENTS				
102.93 102.85	0.413 0.521	1.25 1.36	.3573614E-03 .6191485E-03	970558E-03 948083E-03	.6423565E-02 483602E-02	.1661607E-01 .4105012E-01	.4009298E-01 .3590485E-01	311925E-01 270261E-02
4P CONTR	IBUTIONS	TO 3P	COSINE COEFFICE	ENTS				
102.93 102.85	0.413 0.521	1.25 1.36	673561E-04 320721E-05	.6843928E-04 .5758902E-03	333732E-02 .282810GE-02	055051E-02 394543E-02	652230E-02 .1166443E-01	260384E-02 .4011339E-02
2P CONTR	IBUTIONS	TO 3P	SINE COEFFICIE	тѕ				
102.93 102.85	0.413 0.521	1.25 1.36	.9705577E-u3 .9480833E-03	.3573614E-03 .6191485E-03	166161E-01 410501E-01	.6423565E-02 485602E-02	.3119252E-01 .2702612E-02	.4003238E-01 .3530425E-01
4P CONTR	IBUTIONS	TO 3P	SINE COEFFICIEN	TS	•			
102.95 102.85	0.413 0.521	1.25 1.36	.6843928E-04 .5758902E-03	.6755607E-04 .3207213E-05	655051E-02 394543E-02	.3337320E-02 262811E-02	260384E-J2 .4011339E-62	652230E-02 .1168443E-01

Table II. (Concluded)

TESTS 2	7 THRU 2	9			•			
Vkt	mu	P '	(Cl/sig)o	(Cm/slg)o	d(C1/s1g)/dTic	d(Cm/sig)/dTlc	d(C1/sig)/dTls	d(Cm/sig)/dTis
MEAN CO	EFFICIEN	TS						•
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	188269E-02 .3628437E-03 .4180408E-02	.9242765E-02 .1819416E-01 .3311972E-01	.24079656Eu0 .17729665Eu0 .21106072E00	2287302E00 3799650E00 4466420E00	.19535350E00 .26289253E00 .47181641E00	.25772100E00 .25832653E00 .45031694E00
3P COST	NE COEFF	I C I ENTS						
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	759315E-04 238242E-02 782283E-02	.2850855E-03 259317E-03 112195E-01	.9985649E-02 .11973778E00 .25971258E00	379839E-02 293962E-01 .18174421EUU	775636E-01 545044E-01 637283E-01	556217E-01 507411E-01 2932484E00
3P SINE	COEFFIC	ENTS						
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	.1934416E-02 .564-340E-03 .6674852E-02	. 156095E-03 164210E-02 118432E-01	.1347648E-01 .2851414E-01 1255707E00	.3603616E-01 .8618534E-01 .32720035E00	.1034973E-01 .7021630E-01 .20982977E00	226922E-01 403132E-01 264610E-01
2P CONT	RIBUTIONS	S TO 3P	COSINE COEFFIC	ENTS				
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	.6483899E-04 201226E-02 983300E-02	-,824665E-03 -,411875E-03 -,894717E-02	.2301190E-01 .10296156E00 .29345647E00	863744E-02 289552E-01 .15365747E00	501279E-01 474088E-01 450949E-01	332357E-01 60478/E-01 2515391E00
4P CONT	RIBUTIONS	S TO 3P	COSINE COEFFIC	IENTS				
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	140770E-03 370157E-03 .2010171E-02	.1109751E-02 .1525587E-03 227232E-02	130263E-01 .1677622E-01 337439E-01	.4839045E-02 441037E-03 .2808674E-01	274357E-01 709563E-02 18u333E-01	223d60E-01 .9737587E-02 417093E-01
2P CONT	RIBUTIONS	5 TO 3P	SINE COEFFICIE	ITS		,		
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	.8246654E-03 .4118753E-03 .8947170E-02	.6483899E-04 201226E-02 983300E-02	.8637436E-02 .2895517E-01 1556575E00	.2301190E-01 .1029G156E00 .29345647E00	.3323573E-01 .6047872E-01 .25153904E00	501279E-01 474088E-01 450949E-01
4P CONTI	RIBUTIONS	5 TO 3P	SINE COEFFICIE	NTS				
120.54 119.92 119.98	0.365 0.503 0.788	1.18 1.27 1.56	.1109751E-02 .1525587E-03 227232E-02	.1407705E-03 .3701568E-03 201017E-02	.4839045E-02 441037E-03 .2808674E-01	.1302626E-01 167762E-01 .3374388E-01	223860E-01 .9737587E-02 417093E-01	274357E-01 709563E-02 186359E-01

MEZH COEFFICIENTS

Vkt	mu	P	(Ct/sig)n	d(Ct/sig)/dT1c	d(Ct/s1g)/dTls
120.54	0.365	1. 18	.4648225E-01	.9536316E-01	.86895085600
119.92	0.503	1. 27	.5196888E-01	913189E-02	.72370923600
119.98	0.788	1. 56	.7598676E-01	848040E-01	.13077182601

Table III. 33-Foot 3-Blade Rotor Harmonic Analyses of Experimental Blade Bending Moment Data

								
TEST 12 "N = 1	;			•				··
HARMONIC AMALYSIS OVERALL CYCLIC LO			T 017	CTR 3 FL	T 12.0	TR 6 1 FLA	BEND S	TA 43
ZEPU PCSITICN USE	C 9.52	LCAD/IN L	SEC -	25 500.00	,			
AJ -0.8765762F 04	ВЈ		Cl	PHI JC	FSIJ	CAYLONLO	J	FREQUENCY
-0.11183905 05	0.34341255	04 0-116	9527F 05	162.930	162.930	1.000000	1	3.322
0.3430391E 03	0.1750458E		3754E 04	70.512	?9.455	0.152467	<u>-</u> -	6.645
C.4743555E 02	0.571870LE		834 CE 03	85.25R	28.419	0.049049	3	9.947
-0.1G676C5E 03	0.4961563=		512 2E 03	102.144	2 . 536	0.043380	4	13.289
0.3229369E 03	-0.61678865	02 0.656	1694F 03	297.625	59.526	0.059505	5	16.611
0.7656126E DZ	-0.21464£3Ē	0.228	0264E 03	289.725	6.288	0.019491	6	19.934
C.14158915 03	-0.23657P7=		711 TE .03.	300,500	42.596	0.023567	7	23.255
0.5424174E 02	-0.79377598		403 4E 02	304.346	39.043	G. CO8 21 8	8	26.578
0.5CE1520F 02	-0.1038194E		649 IE 02	348.153	38.717	0.00~437	9	29.900
-0.4578917E 0Z	-0.1440929F	02 0.480	0287E 02	197.468	19.747	0.00+103	10	33.223
			···		·			
HARMONIC ANALYSIS <u>OVERALL CYCLIC LO</u> ZERC POSITION USE	AC = 0.10692	•	S T 017	CTR 3 F	LT 12.0	TR 31 2 FLA	P BEND S	TA 43
AJ	RJ		CJ.	PHIJC	PS 1 JC	CJ/CJMAY	J	FREGUENCY
-C.93(4660E 04	11.0			111100	. 3100	(d) Cd Im	•	
-U.8569203E 04	0.38370985	04 0.57	458 ZE 04	156.836	156.836	1.00000		3.322
0.1155783E 04	0.12347035		1250F 04	6.891	23.445	0.173380	2	5.6+5
0.3582673E 03	0.5117739E		7144E 03	55.006	18.335	0.064C+3	3	9.967
0.1053861E 03	0.4318435E	_	516 E 03	76.286	19.071	0.045570	4	13.289
-0.4053613E 02	-0.31524398		7 E 39 4E 03	252.673	:2.535	0.032584	5	15.611
-0.4553880F 02	-0.1818536F		566 3F 03	255.823	. 2.637	0.019225	6	19.934
-C.65160125 01	-0.45313605		1901 FE UZ	261.914	3707	0.004693	7	23.255
-0.38480475 02	0.2964311=		742 FE 02	142.351	17.799	0.004980	8	26.578
0.6979069F 02	0.11132816	02 0.76	730 E 02	9.063	1.007	0.007245	9	29.900
-0.4389453E 02	-0.2640211F	02 0.512	22305E 02	211.026	21.103	0.005251	10	33.223
HARMINIC ANALYST	- 	SHIP 3	3 T 017			TP 11 2 FLA	AP RENO	
HARMENTE ANALYST			3 T 017	CTR 3 F	FLT 12.0	TR 11 3 FLA	AP BEND S	TA 43
JVERALL CYCLIC LO	CAC = 0.10034 ED 8.27		USED	-30500.00				
7FRC POSITION USI AJ 0.1801556F 06	CAC = 0.10034 ED 8.27	2E (5 LCA9/IN	USED	-30500.00 PHIJC	PSIJC	CJ/CJMAX	J J	FREQU NCY
7FRC POSITION USI AJ 0.1801556F 06 -0.9127121E 04	QAC = 0.10034 ED 8.27 BJ 	2E (5 LCAD/IN	US ED CJ 0434 FE 04	-30500.00 PHIJC	PSTJC 165.054	X AMLO\LO		FREQUINCY
7FRC POSITION USI AJ 0.1801556F 06 -0.9127121E 04 0.4204392F 03	QAC = 0.10034 ED 8.27 BJ 0.2266587F 0.9155078E	04 0.54 03 0.10	USED CJ 0434 FE 04 0743 4E 04	-30500.00 PHIJC 166.054 65.333	PSIJC 166.054 32.667	CJ/CJMAX 1.CC0000 0.107124	J 12	FREQU NCY 3.322 5.645
7FRC POSITION USI 0.1801556F 06 -0.9127121E 04 0.4204392F 03 0.2284132E 03	0.2266587E 0.5726875E	04 0,e2 03 0.10 03 0.61	CJ 0434 FE 04 0743 4E 04 6557 FE 03	-30500.00 PHIJC 166.054 65.333 68.256	PSIJC 1:6:054 32:667 22:752	CJ/CJMAX 1.CC0000 C.107124 0.C65561	J 1 2 3	FREQU NCY 3.322 5.645 9.967
7ERC POSITION USI 0.1801556F 06 -0.9127121E 04 0.420-392E 03 0.2284132E 03 -0.1156458F 03	0.10036 BJ 0.2266587F 0.9155078F 0.5726875E 0.4553171E	04 0.54 03 0.10 03 0.61 03 0.46	USED CJ 0434 FE 04 0743 4E 04 4557 FE 03 5773 FE 03	-30500.00 PHIJC 166.054 65.373 68.256 104.251	PSIJC 1:6:054 32:667 22:752 26:063	CJ/CJMAX 1.CC0C0Q C.107124 0.C65561 0.049953	J 1 2 3	FREQU NCV 3.322 5.6+5 9.967 13.229
7FRC POSITION USI AJ 0.1801556F 06 -0.9127121E 04 0.4204392E 03 0.2284132E 03 -0.1156458F 03 -0.11573733F 03	0.2265276 0.2265276 0.91550786 0.57268756 0.45531716 -0.46723:45	04 0.64 03 0.10 03 0.61 03 0.61 03 0.46 03 0.46	USED CJ 0434 FE 04 0743 4E 04 6557 5E 03 5773 5E 03	-30500.00 PHIJC 166.054 65.333 68.256 104.251 251.385	PSIJC 1:5.054 32.667 22.752 26.063 50.277	CJ/CJMAX 1.CC0C0Q 0.107124 0.C65561 0.04953 0.052425	J 1 2 3 4	FREQU NCY 3.322 5.645 9.967 13.799 16.611
7FRC POSITION USI AJ 0.1801556F 06 -0.9127121E 04 0.4204392E 03 0.2284132E 03 -0.1156458F 03 -0.157373f 03 0.1415677E 03	0.2266587E 0.9155078E 0.5726875E 0.4573171E -0.46723-6F -0.1555677E	04 0,54 03 0.10 03 0.61 03 0.46 03 0.45 03 0.45	CJ 0434 FE 04 07434 E 04 4557 E 03 3025 E 03 0339 55 03	-30500.00 PHIJC 166.054 65.333 68.256 104.251 251.385 312.202	PSIJC 166.054 32.667 22.752 26.063 50.277 72.050	CJ/CJMAX 1.CC0G00 C.107124 0.C65561 0.04953 0.C52425 0.022366	J 1 2 3 4 5	FREQU NCY 3,322 5.645 9.967 13.269 16.611 19.934
7FRC POSITION USI 0.1801556F 06 -0.9127121E 04 0.4204392F 03 0.2284132F 03 -0.1156458F 03 0.14567776 03 0.8560208F 02	0.2266587F 0.9155078F 0.5726875F 0.4553171F -0.4672344F -0.15556778F -0.10631085	04 0,54 03 0.10 03 0.46 03 0.46 03 0.46 03 0.45 03 0.21	USED 0434 FE 04 0743 4E 04 6557 5E 03 3713 5E 03 0336 5E 03 9163 2E 03	-30500.00 PHIJC 166.054 65.333 68.256 104.251 251.385 312.202 310.188	PSIJC 166.054 32.667 22.752 26.063 50.277 72.050	CJ/CJMAX 1. CC0COO C. 107124 0. C65561 0. 04955 0. 052425 0. 072366 C. C14798	J 1 2 3 4 5 6	FREQU NCY 3.322 5.645 9.967 13.709 16.611 19.934 23.256
AJ 0.1801556F 06 -0.9127121E 04 0.4204392F 03 0.2284132E 03 -0.1156458F 03 -0.157373f 03 0.1415677F 03 0.8560208F 02 0.1270260F 03	0.2266587E 0.9155078E 0.9155078E 0.5726875E 0.4553171E -0.46723.44F -0.1555677E -0.1063108E -0.90246526	04 0.54 03 0.10 03 0.46 03 0.46 03 0.46 03 0.47 02 0.21 03 0.15	USED CJ 0434 FE 04 0743 4E 04 6557 5E 03 3025 6F 03 3039 5E 03 9143 2E 03 58205E 03	-30500.00 PHIJC 166.054 65.333 68.256 104.251 251.385 312.302 310.148	PSIJC 166.054 32.667 22.752 26.063 50.277 7.050 -6.313 +0.575	CJ/CJMAX 1.CC0C00 0.107124 0.C65561 0.04953 0.C52425 0.02236 C.C14798 0.016569	J 1 2 3 4 5 6 7	FREQU NCY 3.322 5.6+5 9.967 13.209 16.611 19.934 23.256 26.578
7FRC POSITION USI 0.1801556F 06 -0.9127121E 04 0.4204392F 03 0.2284132F 03 -0.1156458F 03 0.141567778 03 0.8560208F 02	0.2266587F 0.9155078F 0.5726875F 0.4553171F -0.4672344F -0.15556778F -0.10631085	04 0.52 03 0.10 03 0.46 03 0.46 03 0.47 03 0.47 03 0.47 03 0.11 03 0.11	USED 0434 FE 04 0743 4E 04 6557 5E 03 3713 5E 03 0336 5E 03 9163 2E 03	-30500.00 PHIJC 166.054 65.333 68.256 104.251 251.385 312.202 310.188	PSIJC 166.054 32.667 22.752 26.063 50.277 72.050	CJ/CJMAX 1. CC0C00 C. 107124 0. C65561 0. 04955 0. 052425 0. 072366 C. C14798	J 1 2 3 4 5 6	FREQU NCY 3.322 5.645 9.967 13.709 16.611 19.934 23.256

Table III. (Continued)

-0.2169413E 04 -0.5667146E 03			
CVERALL CYCLIC LCAD = 0.3e201F C4 ZERC PCSITICN USED 1.25 LCAD/IN LSEC 1c203.00 -0.2189413E 04 -0.5687140E 03			
CVERALL CYCLIC LCAD = 0.3e201F C4 ZERC PCSITICN USED 1.25 LCAD/IN LSEC 1c203.00 -0.2189413E 04 -0.5687140E 03	a 2 CHCBD	SEND ST	 A 69
AJ BJ CJ PHIJC PSIJC CJ/ -0.2169613E 04 0.5687146E 03			
-0.2169413E 04 -0.5667146E 03			
0.56671466 03	/CJMA X	J	FREQUENCY
-0.2716509F 04 0.4496783E 03 0.27031E % 04 166.44 13.772 1.6 0.8351416E 02 0.1420215F 03 0.16553E 03 59.7CI 17.900 0.C 0.1686553E 03 -0.3438155F 02 0.16573E 03 3.90.746 2.027 0.2 0.1686553E 03 -0.3438155F 02 0.172163 03 3.90.746 2.027 0.2 0.1686553E 03 -0.3438155F 02 0.172163 03 3.90.746 2.027 0.2 0.168653E 03 0.3461691E 02 0.162243 03 3.90.746 2.0366 0.0 0.956192E 02 0.3621691E 02 0.12223 03 320.746 3.459 0.0 0.656207F 02 0.1902056F 03 0.2612275F 03 70.549 10.136 0.C 0.1114336F 03 0.5465593E 02 0.114115 03 326.127 3.266 0.0 -0.5836301F 03 0.1010862E 03 0.552315 03 170.174 13.908 0.2 -0.3323362E 02 0.9652710F 00 0.238473 00 02 178.366 17.837 0.0 HARMONIC ANALYSIS PODEL CL8705 SMIP 23 T 017 CTR 3 FLT 12.0 TR 34 CVERALL CYCLIC LOAC = 0.597757 C4 7FRC PCSITICN USFD 3.12 LOAD/IN LSEC -20.000.0C AJ BJ CJ PHIJ FSIJC CJ/ 0.96C0645E 04 0.1454553E 04 0.4538413F 02 0.121759 04 17.35 17.396 0.2 -0.4918445F 04 0.9119531E 03 0.5C0227 04 169.496 80.788 1.0 -0.5260525E 01 0.2250397F 02 0.2251012E 03 91.393 91.393 90.446 0.0 -0.2105575F 03 0.6651387E 02 0.6276704E 03 107.56 26.891 0.1 0.1757244F 03 0.131521E 03 0.16160E 03 46.18F 9.238 0.4 -0.1950911E 01 0.5727940F 02 0.6276704E 03 107.56 26.891 0.1 0.1950911E 01 0.7727940F 02 0.6276704E 03 107.56 26.891 0.1 0.5623719F 02 0.8689873E 02 0.1675774E 03 57.578 7.197 0.6 -0.591447E 02 0.2480570E 03 0.255035E 03 76.557 10.942 0.6 -0.591447E 02 0.2480570E 03 0.1550778E 03 57.578 7.197 0.6 -0.4920483E 03 -0.1374009F 01 0.425050E 03 180.163 20.018 0.6 -0.4920483E 03 -0.1374009F 01 0.425050E 03 180.163 20.018 0.6 -0.4920483E 03 -0.1374009F 01 0.425050E 03 180.163 20.018 0.6 -0.4920483E 03 -0.1374009F 01 0.425050E 03 180.163 20.018 0.6 -0.4920483E 03 -0.503071F 03 0.115921 04 57.075 79.537 1.0 -0.175900E 04 -0.7866091E 03 -0.520310NE 03 0.115921 04 57.075 79.537 1.0 -0.175900E 04 -0.7866091E 03 -0.520310NE 03 0.115921 04 57.075 79.537 1.0 -0.188021E 03 0.1717778E 03 0.115921 04 57.075 79.537 1.0 -0.488051E 03 0.1717778E 03 0.115921 04 57.075 79.537 1.0 -0.122066E 03 0.77177778E 03 0.1	251396	1	3.322
O.8351416E 02	00000	2	5.615
-0.14134122 03	059263	3	.9.947
0.9561382E 02 0.3621691E 02 0.1622431E 03 20.166 3.459 0.0 0.656207E 02 0.1902050E 03 0.4612275E 03 70.560 10.136 0.4 0.656207E 02 0.1641157E 03 25.127 3.266 0.0 0.11143365 03 0.5665593E 02 0.1641157E 03 25.127 3.266 0.0 0.0 0.5936301E 03 0.1010862E 03 0.5523156E 03 170.174 13.908 0.2 0.3393362E 02 0.9652710E 00 0.2384737E 02 178.366 17.837 0.0 0.2 0.3393362E 02 0.9652710E 00 0.2384737E 02 178.366 17.837 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	207579	4.	13.219
0.6586207F 02 0.1502056E 03 0.2612275E 03 70.940 10.136 0.0 0.111-336F 03 0.5465593E 02 0.1141.15FE 03 25.127 3.266 0.0 0.00.111-336F 03 0.5465593E 02 0.1241.15FE 03 25.127 3.266 0.0 0.00.111-336F 03 0.1010862E 03 0.527315E 03 170.174 13.908 0.2 0.3323362E 02 0.9652710F 00 0.238473 € 02 178.366 17.837 0.0 0.0 0.3323362E 02 0.9652710F 00 0.238473 € 02 178.366 17.837 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	061637	5	16.611
0.111-336 03 0.5465593E 02 0.12415FE 03 25.127 3.266 0.0 -0.5836301E 03 0.1010862E 03 0.5523154E 03 170.174 13.908 0.2 -0.3333362E 02 0.9652710E 00 0.218473FE 02 178.366 17.837 0.0 HARMONIC ANALYSIS PODEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 34 CYERALL CYCLIC LOAC = 0.597757E 04 7FRC PCSITICN USFD 2.12 LOAD/IN LSFC -20500.0C AJ BJ CJ PHIJO PSIJC CJ 0.9650645E 04 0.1446553E 04 0.45598413F 02 0.151759 \$ 04 17.35 17.396 0.2 -0.4918645E 04 0.9119531E 03 0.50227 \$ 04 169.496 84.748 1.0 -0.5260525E 01 0.2250307E 02 0.2251012E 03 91.339 30.446 0.0 -0.2105575E 03 0.6651387E 02 0.2576104E 03 107.56: 25.691 0.1 0.1757264F 03 0.1313521E 03 0.1816089E 03 46.18F 9.238 0.0 -0.1950911E 01 0.5727940F 02 0.576104E 03 107.56: 25.691 0.1 0.5623719E 02 C.88869673E 02 0.155073E 03 76.597 10.942 0.0 0.5623719E 02 C.88869673E 02 0.155073E 03 76.597 10.942 0.0 0.5623719E 02 C.88869673E 02 0.155003E 03 76.597 10.942 0.0 -0.492043E 03 -0.1374009E 01 0.4420502E 03 180.163 20.018 0.0 -0.492043E 03 -0.1374009E 01 0.4420502E 03 180.163 20.018 0.0 -0.1652354E 02 0.9331784E 02 0.1115407E 03 123.340 12.334 0.0 AJ BJ CJ PHIJC PSIJC CJ/ PCRECOPIE 03 0.5649037E 03 0.115901E 04 57.075 29.537 1.0 -0.1688021E 02 0.1847324E 03 0.115907E 04 57.075 29.537 1.0 -0.1688021E 02 0.1847324E 03 0.115907E 04 57.075 29.537 1.0 -0.1688021E 02 0.1847324E 03 0.115902E 03 95.224 31.741 0.1 -0.483653E 03 0.5731067E 03 0.7106006E 03 57.075 59.557 0.6	36605		. 19.93+
-0.5836301E 03	72042	7	23.256
### CANTENNIC ANALYSIS PROCEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 34 CYEFALL CYCLIC LOAC = 0.5977577 C4 ### CANTENNIC ANALYSIS PROCEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 34 CYEFALL CYCLIC LOAC = 0.5977577 C4 ### CANTENNIC ANALYSIS PROCEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 34 CYEFALL CYCLIC LOAC = 0.5977577 C4 ### CANTENNIC ANALYSIS PROCEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 34 CYEFALL CYCLIC LOAC = 0.5977577 C4 ### CANTENNIC ANALYSIS PROCEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 41 CYEFALL CYCLIC LOAC = 0.2980570E 03 0.151540F 03 0.15502 C3 03 FL 03 C46	044435	8	26.578
HARMONIC ANALYSIS MODEL CL8705 SHIP 23 T 017 CTR 3 FLT 12.0 TR 34 CYERALL CYCLIC LOAC = 0.5977577 C4 7ERC PCSITICN USED 3.12 LOAD/IN LSEC -20500.0C AJ BJ CJ PHIJ PSIJC CJ/ 0.96C6455 04 0.1646553E 04 0.4538413F 02 0.151759 € 04 17.35 17.396 0.7 -0.4918465 04 0.9119531E 03 0.5C0227 € 04 109.496 8748 1.6 -0.52C5255E 01 0.2250397E 02 0.2251012E 03 10.329 30.446 0.6 -0.21C5575F 03 0.6651387E 02 0.4576104E 03 107.56 26.891 0.0 0.127724F 03 0.1313521E 03 0.451668 € 03 46.18F 9.738 0.6 -0.1250911E 01 0.727940F 02 0.4529701E 02 91.050 15.182 0.6 0.5911447E 02 0.2480570E 03 0.255003 € 03 76.557 10.942 0.6 0.523719E 02 0.8869873E 02 0.1C5C778E 03 57.578 7.197 0.6 -0.4920483E 03 -0.1374009E 01 0.452002 € 03 180.163 20.018 0.6 -0.6152354E 02 0.9351784E 02 0.1115407E 03 123.340 12.334 0.6 HARMONIC ANALYSIS MODEL CL8705 SHIP 23 T 017 CTR 7 FLT 12.0 TR 41 CYERALL CYCLIC LC3C = 0.237151E C4 7ERC PCSITION USED 0.39 LCAD/IN USED -14150.00 HARMONIC ANALYSIS MODEL CL8705 SHIP 23 T 017 CTR 7 FLT 12.0 TR 41 CYERALL CYCLIC LC3C = 0.237151E C4 7ERC PCSITION USED 0.39 LCAD/IN USED -14150.00	212059	· 9 .	29.900
TERC PCSITICN USED 2.12 LCAD/IN LSEC -20500.00 AJ BJ CJ PHIJC PSIJC CJ/ 0.96C06455 04 0.1445538 04 0.45284135 03 0.151759 04 17.35: 17.396 0.2 -0.4918455 04 0.91195316 03 0.5C0227 04 169.496 84.788 1.0 -0.52605255 01 0.22503976 02 0.22510126 03 91.339 30.446 0.0 -0.21055755 03 0.66513876 02 0.25610126 03 91.339 30.446 0.0 -0.21055756 03 0.66513876 02 0.65767046 03 107.56: 26.891 0.1 0.1757264F 03 0.13135216 03 0.161608 03 46.18F 9.238 0.0 -0.19509116 01 0.5727940F 02 0.65297016 02 01.050 15.182 0.0 0.59114476 02 0.24805706 03 0.25500356 03 76.597 10.942 0.0 0.56237198 02 0.86898736 02 0.15507786 03 57.578 7.197 0.0 -0.49204838 03 -0.13740096 01 0.46205026 03 180.163 20.018 0.0 -0.61523546 02 0.93517846 02 0.11154076 03 123.340 12.334 0.0 MARMONIC ANALYSIS MODEL CL8705 SHP 23 T 017 CTR 2 FLT 12.0 TR 41 CYER3LL CYCLIC LC3C = 0.2371515 C4 PARC PCSITION USED 0.39 LCAD/IN USED -14150.00 AJ BJ CJ PHIJC PSIJC CJ/ -0.17759905 04 -0.76660916 03 -0.66480375 03 0.105921 00 57.075 29.537 1.0 -0.63013675 03 0.97310676 03 0.105921 00 57.075 29.537 1.0 -0.63013675 03 0.97310676 03 0.105921 00 57.075 29.537 1.0 -0.16889216 02 0.18473246 03 0.11550256 03 95.224 31.741 0.1 -0.4839653: 03 -0.52033036 03 0.71060766 03 27.074 55.788 0.6 0.12220666 03 0.17117736 03 0.21096656 03 54.255 10.851 0.16	012118 .	10	33.273
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AJ BJ CJ PHIJC PSIJC CJ/ -0.17759905 04 -0.76560916 03 -0.66480375 03 0.103144 05 04 220.131 220.131 0.8 0.63013475 03 0.97310676 03 0.115931 04 57.075 29.537 1.0 -0.16889216 02 0.18473246 03 0.1850245 03 95.224 31.741 0.1 -0.48396537 03 -0.52033036 03 0.11060966 03 227.074 55.758 0.6 0.1232066 03 0.17117736 03 0.2109665 03 54.255 10.851 0.1			
-0.1775990E 04 -0.78E6091E 03 -0.6648037E 03 0.1C3144EE 04 220.131 220.131 0.8 0.6301347E 03 0.9731067E 03 0.115931 % 04 57.07E 29.537 1.0 -0.1688921E 02 0.1847324E 03 0.1855025E 03 95.224 31.741 0.1 -0.48396535 03 -0.5203303E 03 0.7106096E 03 227.074 55.758 0.6 0.1232066E 03 0.1711773E 03 0.2109665E 03 54.255 10.851 0.1	•		
-0.1775990E 04 -0.78E6091E 03 -0.6648037E 03 0.1C3144EE 04 220.131 220.131 0.8 0.6301347E 03 0.9731067E 03 0.115931 % 04 57.07E 29.537 1.0 -0.1688921E 02 0.1847324E 03 0.1855025E 03 95.224 31.741 0.1 -0.48396535 03 -0.5203303E 03 0.7106096E 03 227.074 55.758 0.6 0.1232066E 03 0.1711773E 03 0.2109665E 03 54.255 10.851 0.1			
-0.78860918 03 -0.66480375 03 0.103144 08 04 220.131 220.131 0.8 0.63013475 03 0.57310678 03 0.115931% 04 57.075 28.537 1.0 0.16889218 02 0.18473248 03 0.1859258 03 95.224 31.741 0.1 -0.48396537 03 -0.52033038 03 0.11060968 03 227.074 55.758 0.6 0.12320668 03 0.17117738 03 0.2109668 03 54.255 10.851 0.1	/CJ MA X	J	FREQUENCY
0.63013675 03 0.9731067E 03 0.11592125 04 57.075 29.537 1.0 -0.1688921E 02 0.1847324E 03 0.1855025 03 95.224 31.741 0.1 -0.4839653: 03 -0.5203303E 03 0.1106096E 03 227.074 55.758 0.6 0.1232066E 03 0.1711773E 03 0.21096656 03 54.255 10.851 0.1		_	
-0.1688921E 02	P89499	<u> </u>	3.322
-0.48396537 03 -0.5203303E 03 0.7106096E 03 227.074 55.768 0.6 0.1232066E 03 0.1711773E 03 0.2109665E 03 54.255 10.851 0.1	00000	2	6 - 6 4 5
0.12320665 03 0.17117735 03 0.21090655 03 54.255 10.851 0.1	160011	3	9.967
	12957	4	13.289
U.1.14000Ut Q3	181-924	5	15.611
A 1.5//09F AS A 0//0/00F AS A 0//00F AS A 0/	141575	<u> </u>	19.934
	026 <u>165</u>		23.256
	073857	9	26.578
	010506 034.909	9 10 .:	29.900 33.273

Table III. (Continued)

TEST	12	н •	2	ŧ		•						
НДРМ	GN I C	ANAL	YSIS	MODEL CL8705	SHI	P 13	T 017	CTR 5 FI	LT 12.0	TR 6 1 FLA	P BEND	STA- 3
_OVE#4	۸L.L	CYCLI	C LOA	C. = _ 0.12748	3 <u>C_</u> <u>C</u> 5		·					
ZFRO	PCS	ITIC	USED	9.52	L CA	D/IN ÚSE	C	-26 500.00				
		AJ		BJ		CJ	i	PHI JC	PS I JC	CJ/CJMAX	J	FREQUENCY
		3367E		0.1821606F	03	_0.11707	7C7F 05	0.892	0.892	1.000000	1	3.247
		74635		-0.24605005		0.25059			112.287	C.2-9474	2	5.494
		14 5 OF		0.21933545	03	0.50031	11 FE 03	34.663	13.221	0.042736	3	9.740
0	.362	10256	03	0.7416459E	0.3	0. 62550	17 CF 03	53.982	15.996	0.070513	4	12.927
		43386		-0.90260678		0.11085	6 CE 04		4 .722	0.111775	<u>خ</u>	16.234
0.	•5 02	34 748	02	-0.1182074F	02	0.51606	.7 TE 02	346.759	57.793	0.00-406	6	19.481
		3856E		<u>-0.3318030F</u>		_0.26371			25.117	0.031063	7	22,727
		5150E		0.4245300E		0.13060		19.568	2 • 371	0.011156	8	25.974
		3332F		0.1403700E		0.16056			c. 774	0.013715	9	29.221
0	935	C84 1E	02	0.9571712E	02	0.1331	1 EE 03	45.669	4.567	0.011430	10	32.468
CYEP.	ALL.	באנדן		PODEL CL8705 C = 0.14945	6E_(.5_	P 23	T 017 EC	26100.00	LT 12.0	TR 31 2 FLA	P BEND	STA 43
		LA							PSTJC	X AMLINUS		FREQUENCY
-0	146	46578	. 06	RJ.		CJ	,	DHIJC	PSIJE	CON: Jed x	J	F# CUUE NIL Y
		4725		-0.2646269F	Λ4	_0.13607	20 FF 05	349.786	348.786	1.00000C	1	3.247
		24498		-0.2550252E		0.47601			108.386	0.313082	2	6.494
		58236		-0.1155701E		0.33232			113.215	0.024423	3	9.740
		48736		0.45634965		0.15900			7.240	0.055780	4	12.997
		61898		-0.5752655E		0.11446		210.169	42.034	0.084123	5	16.234
0	.779	04 1 7	02	-0.3410898F	0.2	0.34567	/3 3E 03	28 2 . E + 5	. 7. 144	0.025713	6	10,481
-0	.350	70198	03	-0.1002411E	03	0.26474	66E 03	195.552	27.003	0.026806	7	?2.727
0	.123	34496	03	-0.1CC8970E	02	0.15935	5 5E 03	320.717	40.090	0.011711	8	25.974
_	.212	45708	03	-0.6964182E	02	0.22357		7/1 //1	37.983	0.016431	9	29.221
0						0 0 0 0 2 3 .	19 th 03	341.851	314 703	0 1 0 2 ()	-	
	.246	35968	02	-0,7440413F	02	0.78276			2?.832	0.005760	1Ó	32.468
HARM	ICN 1	ANA!	LYSIS	-0.74404135	5 \$41	0.78276 P 23	T 017	288.220 CTF 5 F	2?.832		10	32.468
HARM CVEP	ICN TO	CYCL	LYSIS	*00€L CL8705	5 SHI 195 C5	0.78276 P 23	T 017	288.220 CTF 5 F	2?.832	0.005760	10	32.468
HARM CVEP ZERC	ICN TO	CYCL	LYSIS IC_LOA	*00€L CL8705	5 SHI 195 C5	0.78276 P 23	T 017	288.320 CTr 5 F	2?.832	0.005760	10	32.468
HARM CVEP ZERC	IGNTO	CYCL SITIO	LYSIS IC_LOA N USEE	PDDEL CL8705 C = 0.15145) 8.27	S SHI 19E .C.S. L.CA	0.78276 P 23 D/IN LSI	T 017	268.320 CTF 5 F -30500.00 PHIJC	2?. 832 LT 12.0	0.005760 TR 11 3 FLA CJ/CJMAX	P BEND	STA 43
HARM CVEP ZERC	CONT (ALL . PC ! ALL . ALL	AJ 067111	LYSIS IC_LOA N USEE	FODEL CL8705 C =0.15145 D 8.27 BJ 0.21937206	S SHI 19E .C.S. L.CA	0.78276 P 23 D/IN LSI C.	T 017 FC J	268.320 CTr 5 F -30500.00 PHIJC 350.656	2?. 832 LT 12.0 PSIJC 350. 856	0.005760 TR 11 3 FLA CJ/CJMAX 1.000.000	P BEND	STA 43 FREQUENCY 3.247
HARM CVEP ZERC	ONTO	CYCL SITIO	LYSIS IC_LOA N USED E 05 E 05 E 04	PODEL CL8705 C = 0.15145 D 8.27 BJ -0.21937206 -0.23195095	S SHI 195 CS L CA	D/IN LSI C. 0.1803 0.25186	T 017 EC J 30.4E_05 60.4E_04	268.320 CTF 5 F -30500.00 PHIJC 350.856 226.015	2?. 832 LT 12.0	0.005760 TR 11 3 FLA CJ/CJMAX 1.000000 0.283876	P BEND	32.468 STA 43 FREQUENCY 3.247 6.434
HARM CVEP ZERC	PC:	AJ 067111 28521	LYSIS IC_LOA N USED E 05 E 05 E 04 E 03	FODEL CL8705 C =0.15145 D 8.27 BJ 0.21937206	5 SHI 9E C5 LCA	D/IA LSI C. 0.13803 0.415180	T 017 EC J 30 4E 05 60 4E 04 15 1E 03	268.320 CTF 5 F -30500.00 PHIJC 350.656 226.315 355.657	2?. 832 LT 12.0 PSTJC 350. 856 113.007	0.005760 TR 11 3 FLA CJ/CJMAX 1.000.000	P BEND	32.468 STA 43 FREQUENCY 3.247 6.434 9.70
0 HARM CVEP ZFRC -0 0 0	PC:	C ANAI CYCL EITIOI AJ 367111 28521 13661 46631	LYSIS IC_LOA N USED E 05 E 04 E 03 E 03	#DDEL CL8705 C = 0.15145) 8.27 BJ 0.21937206 -0.29195095 -0.29003746	04 04 02	D/IN LSI C. 0.1803 0.25186	T 017 FC J 39.4F_05 60.4F_05 73.73.5F_03	268.320 CTF 5 F -30500.00 PHIJC 350.856 226.J15 355.857 40.965	27. 832 LT 12.0 PSIJC 350. 856 113.007 116.617	0.005760 TR 11 3 FLA CJ/CJMAx 1.000.000 0.283876 0.029087	P BEND J 1 2 3	32.468 STA 43 FREQUENCY 3.247 6.434
0 HARM CVEP ZERC -0 0 0 0	PC:	CYCL EITIO AJ 36711(2852) 1366(34663)	LYSIS IC_LGA N USED E 05 E 05 E 04 E 03 E 03 E 03	#DDEL CL8705 C = 0.15145) 8.27 BJ -0.21937206 -0.2319509F -0.29003746 0.51502345	04 04 02 03	P 23 D/IN LSI C. 0.12803 0.25186 0.46151 0.7655	T 017 FC J 39.4E_05 60.5E 04 17.35 04 17.35 04 17.35 04 17.35 04	268.320 CTF 5 F -30500.00 PHIJC 350.656 226.J15 355.657 40.965	27.832 LT 12.0 PSIJC 350.856 113.007 116.617 10.241	0.005760 TR 11 3 FLA CJ/CJMAx 1.000000 0.283876 0.029087 0.055909	J L 2 3	32.468 STA 43 FREQUENCY 3.247 6.474 9.7:0
-0 -0 0 -0 -0 -0	PC:	CYCL SITIO AJ 067111 28521 13661 319191 17871 195101 163841	LYSIS IC LOA N USEC E 05 E 04 E 03 E 03 E 03 E 03 E 03 E 03 E 03 E 03	#UDEL CL8705 C = 0.15145 BJ =0.21937206 -0.21937206 -0.29003746 0.51502346	04 04 02 03	D/IN LSI C. 0.12803 0.25186 0.46151 0.78557	T 017 FC US 039 4F 05 60 4E 04 15 1E 03 73 5F 03 42 2E 04 45 2E 02 64 65 2E 02	268.320 CTF 5 F -30500.00 PHIJC 350.656 226.J15 355.657 40.965 217.659 247.571	27.832 LT 12.0 PSIJC 350.856 113.007 118.617 10.741 43.532	0.005760 TR 11 3 FLA CJ/CJMAx 1.000.000 0.283876 0.029687 0.0554909 0.079501	J 10 J 1 2 3 4	32.468 STA 43 FREQUENCY 3.247 0.434 9.7:0 12.057 15.234
0 HARM CVEP ZERC -0 0 0 0	PC:	AJ 67111 28521 13661 46631 19191 78711 95101 63841 15591	USED 05 05 06 03 03 03 03 03 03 03	#UDEL CL8705 C = 0.15145 D 8.27 BJ -0.21937206 -0.29195096 -0.29003746 0.51507346 -0.67C48246 -0.84017536	04 04 02 03 03 02	D/IN LSI C. 0.1290 0.25186 0.4615 0.76557 0.10974	T 017 T 017 EC J 339 4F_05 60 4E 04 15 1E 04 173 1F 04 42 7E 04 45 7E 02 16 9E_03	268.320 CTF 5 F -30500.00 PHIJC 350.856 226.015 355.857 40.965 217.659 247.751	27.832 LT 12.0 PSIJC 350.856 113.007 118.619 10.741 43.532 41.328	0.005760 TR 11 3 FLA CJ/CJMAX 1.000.000 0.283876 0.029087 0.056909 0.079501 0.006566	10 P BEND J 1 2 3 4 5 6 7 8	32.468 STA 43 FREQUENCY 3.247 6.474 9.7:0 12.097 15.234 19.461
+0 -0 0 0 0 0 0 0	PC: -14(-13: -27: -45(-55: -33: -23: -33: -33: -33: -33: -33: -33	CYCL SITIO AJ 067111 28521 13661 319191 17871 195101 163841	USED E 05 E 05 E 04 E 03 E 03 E 03 E 03 E 03 E 03 E 02 E 02 E 02	#DDEL CL8705 IC = .0.15145 0 8.27 BJ -0.21937206 -0.23195096 -0.29003746 -0.51502346 -0.67C48246 -0.84017536 -0.28166996	04 04 04 02 03 02 03 03 03	D/IA LSI C. 0.13803 0.4615 0.76557 0.16974 0.6634 0.26591	T 017 FC J 39 4F_05 60 4C 04 175 1E 03 73 5F 03 42 7E 04 45 7E 02 16 6E 03 11 6E 03	268.320 CTF 5 F -30500.00 PHIJC 350.656 226.J15 355.657 40.965 217.659 247.571 229.e10 309.027	27.832 LT 12.0 PSIJC 350.856 113.007 118.617 10.741 43.532 41.328 32.801	0.005760 TR 11 3 FLA CJ/CJMAx 1.000.000 0.283876 0.0256909 0.079501 0.006566 0.025791	J 10 1 1 2 3 4 5 6 6 7	32.468 STA 43 FREQUENCY 3.247 6.474 9.70 12.977 15.234 19.461 22.727

Table III. (Continued)

TEST 15 N = 2	(CONTINUED)						
							67A' 110
HARMONIO ANALYSIS Dvep <u>all</u> cyclic lo <i>i</i>		FIP :3 T 017	C16 2 1		TP 41 2 FLAF		214 110
TERC POSITION USED	0.39 L	CADVIN USED -	-14150.0C				
AJ -0.2662602E 04	ВЈ	ĊJ	PH1 JC	P: I JC	CJ/CJMAX	J	FREQUENCY
0.327C875E_04	-0.19707745 04	0.2819714E 04	328.530	329.930	1.000000	1_	3.2.7
-0.1053371E 04	-0.5253750F 03	0 . 1 17711 SF 04	206.508	103.254	0.309250	2	5.474
0.32543626 03	0.3430857F 03	0,412226 E 03	46.466	15.489	0.123923	3	9.7-0
-0.2203455E 03	0.14077325 04	0.1424E72E 04	58.856	24.724	0.373129		12.95
0.72005765 03	0.2846925E 03	0.7:42952E 03	21.573	4.315	0.202763	5	16.234
0.76C5598E 02	0.59912868 02	0.46815726 02	38.229	6.372 F1.097	0.02' 354 0.033446	7	22.727
0.1276275E_03 0.2858952E_02	-0.5179741F_01_ 0.5482730E 02	0.127727 (E 03_ 0.618336 (E 02	357.676 62.460	7.809	0.016192	9	25.074
-0.2765079F 02	-0.8859415E C1	0.290354 26 02	197.766	21.974	0.007603	9	29.221
-0.1524946E 01	-0.1222271F-01	0.162459 E 01	180.431	18.043	2.000426	·10 ·	32.469
WHATTHEY VA		****** VI	*******	******			
							-
HARMONIC ANALYSIS Cyerall Cyclic Loa		HIP 23 T 017	CTR 5 FL	T 12.0	TP 34 2 CHOP	D BEND	STA ZI.
ZERC PCSITIEN USEC	3.12 L	CAD/IN LSED -	-206CO.GO			٠,	
AJ 0.1020641E 05	BJ	Cl	PH1 JC	PST JC	CJ/CJMAX	J	FREQUENCY
0.1 C46790E 04	0.1397053E 04	0.174571 6E 04	53.156	53.156	0.181327	1	3.247
0.80750008 04	0.5242344E 04	0.5(2744 9E 04	32.992	16. 196	1.000000	2	6.404
-0.9164026E 03	0.9179756F 03	0.1757101E 04	134.951	-4-984	0.134729	3	9.740
0.2123387F 04	-0.1231701F 04	0.2454762E 04	329.083	82.471	0.254575	4	12.987
0.03306376 01	-0.5432554F 03	0.5433191F 03	270.F78	5 . 175	0.056434	5	16.234
-0.1022927E 03	-0.3560221F 01	0.102354 EE 03	181.993	30.332	0.010632	6	19.491
0.10770615 03	0.3461289E 03	0,7(24993E 03		10.388	0.037653		22.727
-0.1022171E 03	-0.9621372F 02	0.14037576 03	223.267	27.908	0.014581 0.028508	8 9	25.974 29.221
-0.4932324E 02	-0.26999228 03	0.27446C4E 03	259.647 123.459	28.850 12.350	0.028508	10	32.448
-0.45048496 02	0.6806303E 02	0.€162C7Œ 02	123.477	12.330	0.008478		32.440
	· · · · · ·				·		
PARMONIC ANALYSIS		TP 23 T 017	CTR 5 FL	T 12.0	TP 38 2 CHCR	D BENC	STA 69
		I					
ZERO POSITION USED	1.25 L	CAD/IN LSED	16 200.00				
-0.1916652F 04	BJ	CJ	DHI JC	PSI JC	C1/C1H/ X	j	FREQUENCY
0.2976089E_03	0.1116885E_04_	0 . 1 155 65 6E 04	75,079	75.079	0.201673	1	3.247
0.52011216 04	0.2394055E 04	0.5125656E 04	24.716	12.35P	1.00000	2	6.494
-0.4461494E 03	0.7386876E Q3	0 . E £ 29 £ C TE 03	121.121	40.377	0.150718	3.	9.740
0.15539515 04	-0.1142385F 04	0.152869 CE 04	323.678	EU. 920	0.336849	4	12.907
-0.2117408F 03	-0.4838267E 03	0.528130SE 03	246.364	49.273	0.092235	j	16.234
-0.1246844F 02	0.44957265 07	0.46654276 02	105.501	17.583	0.CO8148	6	19.481
0.1757065E 03		0.2:03:2:E_03_	45.425	5.489_	0.C43725		?2.727
0.71898598 02	-0.7575005E 02	0.1(73754F 03 0.555656 9E 03	312.C36 173.20P	37.005	0.018753 0.097745	· 8	25.974 29.271
-0.5558206F 03	0.65414005 02						

Table III. (Continued)

						•					
TEST	12	N - :	5				·				
HAPMC	CNIC A	NALYS	IS Mr	DEL CL8705	 \$1		CTP 6 FI	T 12.0	TR 6 1 FLAF	BEND	STA 43
. OVEPA	FLL CY	CLIC	LC4E:	<u> 0 • 3 2 0 7 6</u>	3!(4	\					
7 ERO	PCSIT	ICN U	SED .	9.52	L	CAD/IN USEC	-25500.00				
	A.J)		BJ		CJ	PHIJC	PS1 JC	K *MLD/LD	J	FREQUENCY
		02E 0		_				_			•
		C4E0		0,99265438		0.275051.2E_04		153.827	1.000000		3.289
		145E 0		0.1507896F		0.653762 CE 03 0.3681545E 03		95 . 277 23.674	0.3CH268 0.163587	2 3	6.579 9.848
		70= 0		0.3672681° 0.23354839		0.2:354585 03	50.712	22.675	0.103783	4	13.158
		76E 0		0.7124709		0.F32561 % G3	238.643	47.767	0.369543	5	16.447
		COE O		0.14624627		0.147320 E C3	93.076	13.846	0.065461	5	19.737
		615 0		0.1745034E		0.15703228 03		-1.584	0.083106	7	23.025
		016 0		0.42943025		0.44206985 02		35.467	C. 012643	8	25.316
		5 2F 0		0.3894141F		0.1187E05E 03	19.138	2.126	0.052779	9	29.605
0.	19274	52E 0		0.4833420E		0.520355 RE 02	68.259	5.826	0.023122	10	32 • 8 + 5
PARMO	CNIC A	NALYS		DEL CL8705		-IP 23 T 017	CTR 6 FI	T 12.0	TP 31 2 FLAF	BEND	STA 43
_QVERA	ALL_CY	CLIC	LQAL .	<u> </u>							
ZERC		ICN U	SFD	3.75	L (CAD/IN LSEC	26100.00	<u> </u>			
_	LA		_	BJ		CJ	PHIJC	PSTJC	CJ/CJMAX	J	FFEDUENCY
		34E 0									
		43E 0		2.1670867F		0.222170 SE 03	211.240	211.240	C. 386 FO 6	1	3.289
		75E 0		3.4187703F		0.8128997E 03 0.2850063E 03	210.164 66.722	105.092	1.000000	2 3	6.579 9.868
		705 0		0.3536670F 0.2923833F		0.209649 SE 03	70.776	17.694	0.371773	. 4	13.158
		64 - 0) • 44555° 1E		0.3248474E 03	217.091	43.416	0.887234	5	16.447
		54E 0		0.1518385E		0.1:7291 IE 03	285.130	. 7.522	0.188848	6	19.737
		58E 0	-	0.21029625		0 . 2 105 30 7E 03	257.239	38.177	0.252768	. 7	23.026
		875 0		0.9506010F		0.1450C4 EE 03	319.027	39. 80	0.174096	8	26.316
		23E 0		0.1021192F		0.144724 SE 03	315.121	35.013	0.173760	9	29.605
		OOE O		0.4044965E		0.881726 Æ 02	332.693	33.269	0.105862	10	32.895
				DEL CL8705		-1P 23 T 017	TR 6 FL	T 12.0	TR 11 3 FLAF	BEND	STA 43
.OYER A	al L. CY		LCAC .		6E_04	<u> </u>	TR 6 FU	T 12.0	TR 11 3 FLAF	BEND	STA 43
OYERA ZERC	LL CY PCSIT LA	ICN U	LCAE	0.10405	6E_04	<u> </u>		PST JC	TR 11 3 FLAF	BEND	STA 43
ZERC -0.	PCSIT	ICN U	LCAE SED	0.19405 8.27 BJ	6F. 04	CJ	-30500.00 PHI JC	PST JC	CJ/CIMAX	J	FREQUEN'Y
ZERC -0.	PCSIT AJ 12018	ICN U	LOAC SED 5 3 (8.27 BJ	6E_04	AD/IN LSEC	-30500.00 PHI JC	PST JC 258.551			FREQUEN'Y
ZERC -0. -0.	ALL CY PCSIT AJ 12018 16822	ICN U	SED 5 3 -(0.19405 8.27 BJ	6E 04	CJ 0.6475225E_03	-30500.00 PHI JC 258.551 229.604	PST JC	CJ/CIMAX 1.000000	J 1	FREQUEN'Y
-0. -0. -0.	ALL CY PCSIT AJ 12018 16622 47346	ICN U	SED 5 3 -0 3 -0	8.27 BJ 0.8306587F	03 03 03	CJ CJ 0.6475225E 03	-30500.00 PHI JC 258.551	PSI JC 259.551 114.802 27.915	CJ/CIMAX 1.000000 0.852013	J 1 2	FREQUEN V 3.2-9 5.579
-0. -0. -0. -0.	ALL CY PCSIT AJ 12018 16622 47346 14124 27353	ICN U	SED 5 3 -0 3 -0 2 0	8.27 BJ 0.8306587E 0.5563916E 0.3631121E	03 03 03 03	CJ CJ 0.8475225E_03 0.7305754E_03 0.2896152E_03	-30500.00 PHI JC 258.551 229.604 68.745	PSI JC 258.551 11: 802	CJ/CIMAX 1.000000 0.852013 0.459711	J 1 2 3	FREQUENTY 3,229 5,579 9,958
-0. -0. -0. -0.	ALL CY PCSIT AJ 12018 16.622 47346 14124 27353	ICN U	SED 5 3 -0 3 -0 2 0 3 -0	8.27 BJ 0.8306587E 0.5563916E 0.3631121E 0.3264262F 0.5644390F	02 03 03 03 03 03	CJ 0.6475225E 03 0.7305754E 03 0.7896157E 03 0.3275773E 03	-30500.00 PHI JC 259.551 229.604 68.745 94.790	PSI JC 259.551 114.802 22.915 23.697	CJ/CIMAX 1.000000 0.852013 0.459711 0.366506	J 1 2 3 4	FREQUEN V 3.2-9 5.579 9.958 13.158
-0. -0. -0. -0. -0.	ALL CY PCSIT AJ 12018 16.22 47346 14124 27353 15933 17154	ICN U 18E 0 59E 0 48E 0 36E 0 39F 0 21E 0 68E 0	SED 5 3 -(3) (2) (2) (3) (4) (2) (2) (3) (4) (4) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	8.27 BJ 0.8306583F 0.5563916E 0.3631121E 0.326422F 0.564430F 0.1173577E 0.2756633F	02 03 03 03 03 03	CJ CJ 0.6475225E 03 0.7305754E 03 0.2696152E 03 0.2675773E 03 0.519201 E 03 0.267845 CE 03 0.278154 Œ 03	-30500.00 PHI JC 259.551 229.604 68.745 94.790 253.3C1	PSI JC 259.551 11:.802 27.915 23.697 50.660	CJ/CIMAX 1.000000 0.862013 0.459711 0.366506 0.695311	J 1 2 3 4 5 5	5.579 9.958 13.158
-0. -0. -0. -0. -0. -0.	PCSIT AJ 12018 16,622 4746 4746 14124 27353 16923 17154 37443	TCN USES OF TENSION OF THE PROPERTY OF THE PRO	SED 5 6 7 7 7 7 7 7 7 7 7 7 7 7	8.27 8.27 8.30 8.00 8.00 8.00 8.00 8.00 8.00	03 03 03 03 03 03 03 03	CJ CJ 0.6475225E 03 0.7505754E 03 0.7505754E 03 0.2696152E 03 0.3275773E 03 0.5192617E 03 0.278456E 03 0.278454E 03	-30500.00 PHI JC 258.551 229.604 68.745 94.790 253.3C1 34.377 762.265	PSIJC 258.551 11.802 77.915 23.697 50.660 37.466 37.026	CJ/CIMAX 1.000000 0.862013 0.459711 0.366506 0.695311 0.245238 0.328244	J 1 2 3 4 5 5 7	5.579 9.958 13.158 15.447 19.737 23.026 26.316
-0. -0. -0. -0. -0. -0.	PCSIT AJ 12018 16,622 47346 47346 27353 17154 37443 10433	ICN U 18E 0 59E 0 48E 0 36E 0 39F 0 21E 0 68E 0	SED 5 3 -0 2 0 2 0 2 0 2 0 3 -0 -0	8.27 BJ 0.8306583F 0.5563916E 0.3631121E 0.326422F 0.564430F 0.1173577E 0.2756633F	03 03 03 03 03 03 03 03	CJ CJ 0.6475225E 03 0.7305754E 03 0.2696152E 03 0.2675773E 03 0.519201 E 03 0.267845 CE 03 0.278154 Œ 03	-30500.00 PHI JC 258.551 229.604 68.745 94.790 253.361 34.377 762.265	PSIJC 258.551 11.802 27.915 23.697 50.660 5.730 37.466	CJ/CIMAX 1.000000 0.862013 0.459711 0.366506 0.695311 0.245238 0.328244	J 1 2 3 4 5 5	5.579 9.958 13.158 15.447 19.737 23.026

Table III. (Continued)

TEST 12 N = 3	(CONTINUED)			-						
		! -								
HARMONIC ANALYSIS OVERALL CYCLIC LOA			23 T O	17	CTR 6	FLT 12.0	TR 41 2	FLAP	BEND	STA 116
ZERO POSITION USED	C.39	LCAD/1F	บระอ	-	14150.0C					
AJ -0.2215746E 04	RJ		СЛ		PHIJC	PSTUC	CJ/CJ	X A	J	FREQUENCY
0.63448026 03	-0.1324905E	04 0.1	56580 CE	04	302.204	302,204	1.0000	00	ı	3.289
-0.1003236E 03	0.4695857E		101 65 SE		102.060				2	4.579
0.1524479E 03	0.1213716F	03 0.1	95236 85	03	38.663	12.899	0.1246	38	3	9.868
-0.1569184F 03	-0.4599458F	02 0.1	£39C445	03	196.672	<u> -7.158</u>	0.10-6	14	4	13.158
0.42219905 03	0.2760715E	03 0.5	C\$ 2 84 SE	03	33.118		0.3227		5	15.44.7
0.1456641F 02	C.6049506F		2224045		76.467				6	19.737
0.2368472E_02_	O.8487456E_		€1172 €		74.4CE				7	23.026
-0.3252719F 02	0.4597247E		6234345		125.340				8	25.316
-0.4648480F 02	J.5498459F		20005 EE		130.212		0.0455		9	27.605
-0.2514140E UZ	0.1644316F	02 0.2	(0410 SE	02	146.814	14.681	0.0191	86	10	32.895
									٠.	
MARMONIC ANALYSIS <u>Overall cyclic loa</u> 7erc position used	C = Q.306890		23 T O		20500.00	FLT 12.0	*R 34 Z		BENL	STA 21.
ΔJ	- BJ		CJ		PHIJC	FSTJC	CJ/CJ#	t X	J	FREQJENCY
AJ 0.10053855 05	ВЈ					FST JC	CT\CT	t X	J	FREQJENCY
0.10053855 05 0.1203646E 04	- BJ 0.1009713F	040.1			PHI JC 39,593	39.993	1.000	00	1	3.207
0.10053855 05 0.12036465 04 -0.20605595 03			CJ	.04	PHI JC 39.593 132.975	39.993 66.487	1.000	00	1 2	3.287 5.579
0.10053855 05 0.1203646E 04 -0.2060559E 03 -0.2000368E 02	0.1009713F 0.2211620F .0.6663560F	02 0.2 03 0.6	CJ 571 (776 (2277 X 66656 Œ	04 03 03	PHIJC 39.593 132.975 91.720	39.993 66.487 30.573	1.0000 0.1924 0.4263	00 01 31	2 3	3.287 5.579 9.868
0.10053855 05 0.1203646E 04 -0.2060559E 03 -0.2000368E 02 -0.6787760E 01	0.1009713F 0.2211620F 0.6663560F -0.1830435F	0 ? 0 . 2 0 3 0 . 6 0 3 0 . 1	CJ \$71 C <u>7 TE</u> (2277 3E (6656 CE 631 69 2E	04 03 03 03	9HIJC 39.593 132.975 91.720 267.876	39.993 66.487 30.573 66.969	1.000 0.1924 0.4243 0.1165	00 01 31 88	1 2 3 4	3,287 5,579 9,868 13,158
0.10053855 05 0.1203646E 04 -0.20060559E 03 -0.200368E 02 -0.6787760E 01	0.1009713F 0.2211620F 0.6663560F -0.1830435F -0.1142550E	0: 0.2 03 0.6 03 0.1	CJ \$11 C7 TE (2277 3E (6656 CE (3169 3E 58256 3E	04 03 03 03	PHIJC 39.593 132.975 91.720 267.876 313.783	39.993 66.487 30.573 66.969	1.C000 0.1924 0.4243 0.1165 C.1007	00 01 31 88	1 2 3 4	3,287 5,579 9,868 13,158 16,447
0.10053855 05 0.1203646E 04 -0.200559E 03 -0.200368E 02 -0.6787760E 01 -0.1095028E 03 -0.2341589E 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F	03 0.6 03 0.1 03 0.1 02 0.6	CJ 571 C77E C2277 3E 66656 CE E3169 2E 58256 2E C6812 3E	04 03 03 03 03	PHIJC 39.593 132.975 91.720 267.876 313.783 112.699	39.993 66.487 30.573 66.969 62.757 18.783	1.0000 0.1924 0.4263 0.1165 0.1007	00 01 31 88 31	1 2 3 4 5	3,287 5,579 9,868 13,158 16,447 19,737
0.1005385F 05 0.1203646E 04 -0.200559E 03 -0.200368E 02 -0.6787760E 01 -0.1055028E 03 -0.2341589E 02 -0.1216417E 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1055456E	0? 0.2 03 0.6 03 0.1 03 0.1 02 0.6 03 0.1	CJ \$71 C77E (2277 3E (6656 CE 83169 3E 18256 3E (6812 3E (6812 3E	04 03 03 03 03 02 03	PHIJC 39.593 132.975 91.720 267.876 313.783 112.699 96.568	39.993 66.487 30.573 66.969 62.757 18.783 13.795	1.0000 0.1924 0.4243 0.1165 0.1007 0.0386	00 01 31 88 31 24	1 2 3 4 5 6 7	3,267 5,579 9,868 13,158 16,447 19,737 23,026
0.1005385F 05 0.1203646F 04 -0.2060559E 03 -0.200368F 02 -0.6767760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417F 02 -0.2178244E 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.105456E 0.7942241E	02 0.2 03 0.6 03 0.1 03 0.1 02 0.6 03 0.1	CJ \$71 C7.76 (2277 36 (6656 08 53169 36 58256 38 (6812 36 (6812 36 (6343 66 23552 76	04 03 03 03 03 02 03	PHIJC 39.593 132.975 91.720 267.876 313.783 112.699 96.569 105.337	39.993 66.487 30.573 66.969 62.757 18.783 13.795	1.000 0.1924 0.4243 0.1165 0.1007 0.0386 0.0676	00 01 31 88 31 24 88	1 2 3 4 5 6 7 8	3.283 5.579 9.869 13.158 16.447 19.737 23.026 26.316
0.1005385F 05 0.1203646F 04 -0.200559E 03 -0.200368E 02 -0.6787760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03	0.1009713F 0.2211620E 0.6665560E -0.1830435F -0.1142550E 0.5598132F 0.1055456E 0.7942241E -0.1659919E	02 0.2 03 0.6 03 0.1 03 0.1 02 0.6 03 0.1 02 0.6 03 0.4	CJ \$71 C7 7E (2277 3E (6656 0E \$8159 3E (6812 3E (6812 3E (6343 6E 23552 7E 18517 7E	04 03 03 03 03 02 03	PHIJC 39.993 132.975 91.720 267.876 313.783 112.699 96.569 105.337 203.343	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596	1.000 0.1924 0.4243 0.1165 0.1057 0.0386 0.0676 0.0524 0.2666	00 01 31 88 31 24 88 20	1 2 3 4 5 7 8	3.283 5.579 9.869 13.158 16.447 19.737 23.026 26.316 29.605
0.1005385F 05 0.1203646F 04 -0.2060559E 03 -0.200368F 02 -0.6767760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417F 02 -0.2178244E 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.105456E 0.7942241E	02 0.2 03 0.6 03 0.1 03 0.1 02 0.6 03 0.1 02 0.6 03 0.4	CJ \$71 C7.76 (2277 36 (6656 08 53169 36 58256 38 (6812 36 (6812 36 (6343 66 23552 76	04 03 03 03 03 02 03	PHIJC 39.593 132.975 91.720 267.876 313.783 112.699 96.569 105.337	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596	1.000 0.1924 0.4243 0.1165 0.1007 0.0386 0.0676	00 01 31 88 31 24 88 20	1 2 3 4 5 6 7	3.283 5.579 9.868 13.158 16.447 19.737 23.026
0.1005385F 05 0.1203646F 04 -0.200559E 03 -0.200368F 02 -0.6787760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.21782446-02 -0.3846282E 03	0.1009713F 0.2211620E 0.6665560E -0.1830435F -0.1142550E 0.5598132F 0.1055456E 0.7942241E -0.1659919E	02 0.2 03 0.6 03 0.1 03 0.1 02 0.6 03 0.1 02 0.6 03 0.4	CJ \$71 C7 7E (2277 3E (6656 0E \$8159 3E (6812 3E (6812 3E (6343 6E 23552 7E 18517 7E	04 03 03 03 03 02 03	PHIJC 39.993 132.975 91.720 267.876 313.783 112.699 96.569 105.337 203.343	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596	1.000 0.1924 0.4243 0.1165 0.1057 0.0386 0.0676 0.0524 0.2666	00 01 31 88 31 24 88 20	1 2 3 4 5 7 8	3.283 5.579 9.868 13.158 16.447 19.737 23.026 26.316 29.605
0.1CC5385F 05 0.1203646E 04 -0.2CC0559E 03 -0.2CC0368E 02 -0.67E7760E 01 0.1055028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03 -0.25C5859F 02	0.1009713F 0.2211620E 0.6663560E -0.1430435E -0.1142550E 0.5598132F 0.1655456E -0.1659919E 0.3817773F	0.2 0.3 0.3 0.3 0.1 0.3 0.1 0.2 0.6 0.3 0.1 0.2 0.6 0.3 0.4 0.3 0.4 0.4	CJ \$71 C7 7E (2277 3E (6656 0E \$8159 3E (6812 3E (6812 3E (6343 6E 23552 7E 18517 7E	04 03 03 03 02 03 02 03 02	9HIJC 39,593 132,975 91,720 267,876 313,783 112,699 94,569 105,327 203,337 203,347	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596	1.000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0576 0.0524 0.2666 C.0305	00 01 31 88 31 24 88 20 44 39	1 2 3 4 5 6 7 8 9	3.283 5.579 9.869 13.158 16.447 19.737 23.026 26.316 29.605 32.895
0.1005385F 05 0.1203646E 04 -0.200559E 03 -0.20036BE 02 -0.67E7760E 01 0.1055028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03 -0.2505859F 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1055456E 0.7942241E -0.1659919E 0.3817773F	0.2 0.3 0.3 0.3 0.1 0.3 0.1 0.2 0.6 0.3 0.1 0.2 0.6 0.3 0.4 0.3 0.4 0.4	CJ \$11677E (2277 ± 66656 Œ \$3169 Œ (6812 Œ (6812 Œ (3853 Œ 13957 Œ 13957 Œ	04 03 03 03 03 02 03 02 03 02	9HIJC 39,593 132,975 91,720 267,876 313,783 112,699 94,569 105,327 203,337 203,347	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596 17.728	1.000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0576 0.0524 0.2666 C.0305	00 01 31 88 31 24 88 20 44 39	1 2 3 4 5 6 7 8 9	3.283 5.579 9.868 13.158 16.447 19.737 23.026 26.316 29.605 32.895
0.1CC5385F 05 0.1203646E 04 -0.2CC0559E 03 -0.2CC036BE 02 -0.67E7760E 01 0.1055028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03 -0.25C5859F 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5599132F 0.1055456E 0.7942241E -0.1659919E 0.3817773F	0:2 0.2 03 0.6 03 0.1 03 0.1 02 0.6 02 0.5 03 0.4 02 0.4	CJ \$11677E (2277 ± 66656 Œ \$3169 Œ (6812 Œ (6812 Œ (3853 Œ 13957 Œ 13957 Œ	04 03 03 03 03 02 03 02 03 02	PHIJC 39,593 132,975 91,720 267,876 313,783 112,690 96,568 105,327 203,343 127,276	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596 17.728	1.000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0576 0.0524 0.2666 C.0305	00 01 31 88 31 24 88 20 44 39	1 2 3 4 5 6 7 8 9	3.283 5.579 9.868 13.158 16.447 19.737 23.026 26.316 29.605 32.895
0.1CC5385F 05 0.1203646E 04 -0.2CC0359E 03 -0.2CC0368E 02 -0.67E7760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3E46282E 03 -0.2556859F 02 HARMENIC ANALYSIS TYPRALL CYCLIC LOA ZERC PCSITICN USEC AJ -0.1E6C970E 04 0.48C0305E 03	0.1009713F 0.2211620E 0.6663560E -0.1430435E -0.1142550E 0.5598132F 0.1655456E 0.7942241E -0.1659919E 0.3817773F	0:2 0.2 03 0.6 03 0.1 03 0.1 02 0.6 02 0.6 03 0.4 02 0.4	CJ \$71 (77 FE (2277 % (6656 CE \$73.69 % (782 FE) \$73.69 % (783 FE) \$73.60 % (783 FE)	04 03 03 03 02 03 02 03 02	PHIJC 39,593 132,975 91,720 267,876 313,783 112,699 94,569 105,337 203,343 127,276 CTR \$	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596 17.728 FLT 12.0	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0576 0.0524 0.2666 C.0305	00 01 31 88 31 24 88 20 44 39 CHPRD	1 2 3 4 5 6 7 8 9 10	3.283 5.579 9.868 13.158 16.447 19.737 23.026 26.316 29.605 32.895
0.1CC5385F 05 0.1203646E 04 -0.2CC0359E 03 -0.2CC0368E 02 -0.67E7760E 01 0.1055028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03 -0.25C5859F 02 MARMENIC ANALYSIS DVERALL CYCLIC LOA ZERC PCSITICN USEC AJ -0.1EEC970E 04 0.48C0305E 03 -0.2369641F 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1655456E 0.7942241E -0.1659919E 0.3817773F PODEL CL8705 C = 0.211173 1.25 BJ 0.7414097E -0.7038649F	0.2 0.3 0.3 0.3 0.1 0.3 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.3 0.1 0.3 0.1 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	CJ \$71C77E (2277 \(2277 \(\frac{2277 \circ{2277 \inc{2277 \circ{2277	04 03 03 03 03 02 03 02 17	PHIJC 39,593 132.975 91.720 267.876 313.783 112.690 96.569 105.327 203.343 127.276 CTR E 1.200.00 PHIJC 57.C79 251.394	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596 17.728 FLT 12.0	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0524 0.2666 C.0305	00 01 31 88 31 24 88 20 44 39 CHPRO	1 2 3 4 5 7 8 9 10	3.283 5.579 9.868 13.158 16.447 19.737 23.076 26.316 29.605 32.895
0.1005385F 05 0.1203646E 04 -0.200559E 03 -0.200368E 02 -0.6787760E 01 0.1055028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E-02 -0.3846282E 03 -0.2365859F 02 MARMONIC ANALYSIS DVERALL CYCLIC LOA ZERC POSITION USEC AJ -0.1860305E 03 -0.2369641F 02 0.216359E 02	0.1009713F 0.2211620F 0.6663560F -0.1830435F -0.1142550F 0.5599132F -0.1659919F 0.3817773F PONEL CL8705 E = 0.211173 1.25 BJ -0.7414097F 0.4190195F	0.2 0.2 0.6 0.3 0.1 0.2 0.6 0.3 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	CJ \$71,C77E (2277 % (6656 CE \$73,69 % \$73,52 % (6812 % (6812 % (6812 % (7812 %) (7812	04 03 03 03 03 02 03 02 03 02	PHIJC 39,593 132.975 91.720 267.876 313.783 112.690 96.568 105.327 203.343 127.276 CTR 1,200.00 PHIJC 57.C79 251.394 87.028	39.993 66.487 30.573 66.969 62.757 18.765 13.167 22.596 12.728 FLT 12.0 PSIJC 57.079 29.013	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0676 0.0524 0.2666 C.0305	00 01 31 88 88 20 44 39 CHPRO	1 2 3 4 5 6 7 8 9 10	3.283 5.579 9.869 13.158 16.447 19.737 23.026 26.316 29.605 32.895
0.1005385F 05 0.1203646E 04 -0.200559E 03 -0.200368E 02 -0.6787760E 01 0.1055028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03 -0.2505859F 02 HARMONIC ANALYSIS GYERALL CYCLIC 104 ZERC POSITION USEC AJ -0.1860970E 04 0.4800305E 03 -0.2369641F 02 0.2164359E 02 0.3206583F 01	0.1009713E 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1055456E 0.7942241E -0.1659919E 0.3817773E PODEL CL8705 E = 0.211173 1.25 BJ 0.7414097E -0.7038649F 0.4190195E -0.23308F2E	0.2 0.2 0.6 0.2 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.3 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	CJ \$71 (77 FE (2277 % (2277 % (2277 % (2277 % (2277 % (2278	04 03 03 03 03 02 03 02 03 02	PHIJC 39,593 132,975 91,720 267,876 313,783 112,659 105,327 203,343 127,276 CTR \$1,200,00 PHIJC 57,C79 251,394 87,028 270,782	39.993 66.487 30.573 66.969 62.757 18.763 13.795 13.167 22.596 17.728 FLT 12.0 PSIJC 57.079 125.697 29.013 67.697	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0576 0.0524 0.2666 C.0305	00 01 31 88 31 24 88 20 44 39 CHURD	1 2 3 4 5 6 7 8 9 10 BEND	3.283 5.579 9.868 13.158 16.447 19.737 23.026 26.316 29.605 32.895 STA 6
0.1CC5385F 05 0.1203646E 04 -0.2CC0359E 03 -0.2CC0368E 02 -0.67E7760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3846282E 03 -0.25C5859F 02 HARMONIC ANALYSIS TYPRALL CYCLIC LOA ZERC PCSITICN USEC AU -0.1EEC970E 04 0.48C0305E 03 -0.2365839E 02 0.3265839E 02 0.3265839E 02	0.1009713F 0.2211620E 0.6663560E -0.1430435E -0.1142550E 0.5598132F 0.1655456E -0.1659919E 0.3817773F PODEL CL8705 C = 0.211173 1.25 BJ 0.7414097E -0.7038649F 0.4190195E -0.23308F2E -0.2252592E	0.2 0.3 0.3 0.3 0.3 0.1 0.3 0.3 0.3 0.3 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.3 0.1 0.3 0.1 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	CJ \$71 C7 7E (2277 % (6656 CE \$73 C69 25 C6 C1 23 C6 C6 23 C6 C6 23 C6 C7 23 C7 C7 23 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	04 03 03 03 03 02 03 02 03 02	PHI JC 39,593 132.975 91.720 267.876 313.783 112.659 96.568 105.337 203.343 127.276 CTR \$ 1,200.00 PHI JC 57.C79 251.394 87.028 270.782 270.782	39.993 66.487 30.573 66.969 62.757 18.783 13.795 13.167 22.596 12.728 FLT 12.0 PSI JC 57.079 125.697 29.013 67.697	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0524 0.2666 C.0305 TP 38 2 CJ/CJF 1.0000 0.0840 0.2639 0.2639	OC OI 31 P.8 31 24 B.8 20 44 44 39 CHURD AX OO 86 45 22 35	1 2 3 4 5 7 8 9 10 BEND	3.283 5.579 9.868 13.158 16.447 19.737 23.026 26.316 29.605 32.895 STA 6
0.1CC5385F 05 0.1Z03646E 04 -0.2CC0559E 03 -0.2CC0368E 02 -0.6TE7760E 01 -0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3246282E 03 -0.23C5859F 02 MARMENIC ANALYSIS GYERALL CYCLIC LCA ZERC PCSITICN USEC AJ -0.1EEC970E 04 0.48C0305E 03 -0.2369641F 02 0.2168359E 02 0.32C6583F 01 0.2589847E 02 0.4419813E 01	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1655456E 0.7942241E -0.1659919E 0.3817773F PODEL CL8705 C = 0.211173 1.25 BJ 0,7414097E -0.7038649F 0.419019E -0.23308F2E -0.23308F2E -0.2924780E	0.2 0.3 0.3 0.3 0.1 0.3 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.3 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	CJ \$71C77E (2277 % (6656CE \$6656CE \$1169 % (6813E) \$10256 % (04 03 03 03 03 02 03 02 03 02 03 02 03 03 03 03 02 03 03 03 03 03 03 03 03 03 03 03 03 03	PHIJC 39,593 132.975 91.720 267.876 313.783 112.690 96.569 105.327 203.343 127.276 CTR E 1.200.00 PHIJC 57.C79 251.394 87.028 270.782 277.191 81.407	39.993 66.487 30.573 66.969 62.757 18.783 13.795 12.1596 12.728 FLT 12.0 PSI JC 57.079 125.697 29.013 67.697 55.438	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0676 0.2666 C.0305 TP 38 2 CJ/CJ# 1.0000 0.4750 0.2639 0.2639 0.2342	00 01 31 88 20 44 39 CHCRO	1 2 3 4 5 6 7 8 9 10	3.289 5.579 9.869 13.158 16.447 19.737 23.026 26.316 29.605 32.895 STA 6
0.1005385F 05 0.1203646E 04 -0.200559E 03 -0.20036BE 02 -0.6787760E 01 0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.3178244E 02 -0.3846282E 03 -0.2765859F 02 MARMONIC ANALYSIS EVERALL CYCLIC 10A ZERC PCSITICN USEC AJ -0.1860305E 03 -0.2369841F 02 0.216359E 02 0.326583F 01 0.2569847E 02 0.4419813E 01 0.2564860L 02	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1055456E 0.7942241E -0.1659919E 0.3817773F PODEL CL8705 E = 0.211173 1.25 BJ 0.7414097E 0.4190195E -0.203269E 0.2224763E 0.224763E	0.2 0.2 0.6 0.3 0.1 0.2 0.6 0.3 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	CJ 111C77E (2277 % (6656 CE 53169 % 53169 % 53169 % 13552 %	04 03 03 03 02 03 02 03 02 03 02 03 03 03 03 03 02	PHIJC 39,593 132.975 91.720 267.876 313.783 112.690 96.568 105.327 203.343 127.276 CTR 1,200.00 PHIJC 57.C79 251.394 87.038 270.788 277.191 81.407 45,556	39.993 66.487 30.573 66.969 62.757 18.763 13.795 13.167 22.596 17.728 FLT 12.0 PSI JC 57.079 125.697 29.013 67.697 57.4868 6.508	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0676 0.0524 0.2666 C.0305 TP 38 2 CJ/CJM 1.0000 0.4750 0.2342 0.2342 0.0234 0.0234	00 01 31 88 31 74 88 20 44 39 CHURD	1 2 3 4 5 6 7 8 9 10 BEND	3.283 5.579 9.869 13.158 16.447 19.737 23.026 26.316 29.605 32.895 STA 6
0.1CC5385F 05 0.1Z03646E 04 -0.2CC0559E 03 -0.2CC0368E 02 -0.6TE7760E 01 -0.1095028E 03 -0.2341589E 02 -0.1216417E 02 -0.2178244E 02 -0.3246282E 03 -0.23C5859F 02 MARMENIC ANALYSIS GYERALL CYCLIC LCA ZERC PCSITICN USEC AJ -0.1EEC970E 04 0.48C0305E 03 -0.2369641F 02 0.2168359E 02 0.32C6583F 01 0.2589847E 02 0.4419813E 01	0.1009713F 0.2211620E 0.6663560E -0.1830435E -0.1142550E 0.5598132F 0.1655456E 0.7942241E -0.1659919E 0.3817773F PODEL CL8705 C = 0.211173 1.25 BJ 0,7414097E -0.7038649F 0.419019E -0.23308F2E -0.23308F2E -0.2924780E	0.2 0.3 0.3 0.3 0.3 0.1 0.2 0.6 0.3 0.1 0.2 0.6 0.3 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.3 0.1 0.3 0.1 0.3 0.1 0.3 0.1 0.3 0.4 0.3 0.1 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.4 0.3 0.4 0.4 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	CJ \$71C77E (2277 % (6656CE \$6656CE \$1169 % (6813E) \$10256 % (04 03 03 03 02 03 02 03 02 17	PHIJC 39,593 132.975 91.720 267.876 313.783 112.690 96.569 105.327 203.343 127.276 CTR E 1.200.00 PHIJC 57.C79 251.394 87.028 270.782 277.191 81.407	39.993 66.487 30.573 66.969 62.757 18.763 13.795 13.167 22.596 12.728 FLT 12.0 PSIJC 57.079 125.697 29.013 67.697 65.438 12.569 5.357	1.0000 0.1924 0.4243 0.1165 C.1007 0.0386 0.0676 0.2666 C.0305 TP 38 2 CJ/CJ# 1.0000 0.4750 0.2639 0.2639 0.2342	OC OC OC OC OC OC OC OC OC OC OC OC OC O	1 2 3 4 5 6 7 8 9 10	3.289 5.579 9.869 13.158 16.447 19.737 23.026 26.316 29.605 32.895 STA 6

Table III. (Continued)

								
TEST 12 N -					 			<u></u>
MARPONIC ANALYS			T 017	CTR 7 F	LT 12.0	TP 6 1 F	LAP REND	STA 43
ZERC PESITION U	SED 9.52	LCAD/IN L	SED	-26500.00				
AJ -C.1345689E 0	BJ 5		CJ	PHI JC	PSTJC	C1/C1WV X	J	FREGIENCY
0.5567426E 0		04 0.726	2 24 €E 04	4 325.119_	325.119	1.000000	1	3.257
-0.2198354E O			6 E5 Æ 04	4 219.448	107.724	0.391684		6.515
0.25265776 0.	3 0.1972610E	02 0.225	4 52 IE 0	3 37.30€	12.436	0.044777	3	9.772
0.3757937E 0			39 FE 0		12.328	C. 0PO144		13.029
-0.5 2CE325E 0			56 EE 0	3 231.010	- 5. 204	C.113914		15.257
C.2954514E 0			5535E 0	3 85.616	1 269	0.053184		19.5:4
-0.1 257365E 0			01345_0		30.305	0.022703		22.801
0.2845016E 0			052 E 0		36.023	0.012631		26 • 059
0.1521725E 0			5C7 Æ 0:		39.432	0.021588		29.316
0.6755714E 0	2 -0.8364040F	01 0.684	655 1E 0	2 352.583	35.298	0.000 20	1ປ	32.573
-	•							
HARMONIC ANALYS	IS PODEL CL8705	SHIP 23	T 017	CTR 7 F	LT 12.0	TR 31 2 F	LAP BEND	STA 43
OVERALL CYCLIC								
ZERC PESITION U	SED 3.75	LCAD/IN L	SED	24 100.CC				
AJ	BJ		CJ	PHIJC	PSTJC	CJ/C.IPA X	J	FPEQUEN Y
-0.16?1355E 0								
0.43532935 0			0 37 SE 04		301.255	1.000000		3.257
-0.4347180E O	4 -0.3824930E	04 0.519	034Œ 04	4 221.343	113.672	0.650117	ž	5.515
-0.4347180E 0 -0.3716935F 0	4 -0.3824930E 3 -0.1576995	04 0.519	034Œ 04 020Æ 04	4 221.343 4 256.737	113.672 85.579	0.690117	2	5.515 9.772
-0.4247180E 0 -0.3716985F 0 0.1616738F 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E	04 0.5190 04 0.1620 04 0.1240	034Œ 04 020Œ 04 466Œ 04	4 221.343 4 256.737 4 270.745	113.672 85.579 67.686	0.690117 0.193103 0.148345	2 3 4	5.515 9.772 13.029
-0.4347180E 0 -0.3716985F 0 0.1616738E 0 -0.4545837E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E	04 0.5190 04 0.1620 04 0.1240 04 0.1630	034Œ 04 020Œ 04 466Œ 04 2742E 04	4 221.343 4 256.737 4 270.745 4 253.834	113.672 85.579 67.686 50.767	0.690117 0.193103 0.148345 0.134597	2 3 4	5.515 9.772 13.029 16.287
-0.4347180E 0 -0.3716985F 0 0.1616738F 0 -0.4545837E 0 C.11J2156E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E	04 0.579 04 0.162 04 0.124 04 0.163 03 0.635	034 Œ 04 020 Œ 04 466 Œ 04 274 Œ 04 07645 03	4 221.343 4 256.737 4 270.745 4 253.834 3 279.994	113.672 85.579 67.686 50.767 46.666	0.690117 0.193103 0.148345 0.134597 0.075691	2 3 4 5	5.515 9.772 13.029 16.287 19.544
-0.4347180E 0 -0.3716985F 0 0.1616738E 0 -0.4545837E 0 c.11J2156E 0 -0.1585248E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E -0.4139167E	04 0.579 04 0.162 04 0.124 04 0.163 03 0.635 03 0.449	034 Œ 04 020 Œ 04 466 Œ 04 274 ZE 04 07645 03 063 ZE 03	4 221.343 4 256.737 4 270.745 4 253.834 3 279.554 3 244.376	113.672 85.579 67.686 50.767 46.666 34.911	0.690117 0.193103 0.148345 0.134597 0.075691 0.054713	2 3 4 5 6 7	5.515 9.772 13.029 16.287 19.544 22.801
-0.4347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.1132156E 0 -0.1545248E 0 -0.1641592E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.6254395E 3 -0.4139167E 3 -0.308E537E	04 0.579 04 0.162 04 0.163 04 0.163 03 0.635 03 0.459 03 0.251	034 0E 04 020 TE 04 466 TE 04 274 ZE 04 0764 F 03 063 ZE 03 880 SE 03	4 221.343 4 256.737 4 270.745 4 253.834 3 279.994 3 244.376 3 241.267	113.672 85.579 67.686 50.767 46.666 34.911	0.690117 0.193103 0.148345 0.134597 0.075691 0.054713	2 3 4 5 6 7 8	5.515 9.772 13.029 16.287 19.544 22.801 24.059
-0.4347180E 0 -0.3716985F 0 0.1616738E 0 -0.4545837E 0 c.11J2156E 0 -0.1585248E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E -0.3085537E 2 -0.1104291E	04 0.579 04 0.162 04 0.124 04 0.163 03 0.653 03 0.459 03 0.251 03 0.120	034 Œ 04 020 Œ 04 466 Œ 04 274 ZE 04 07645 03 063 ZE 03	4 221.343 4 256.737 4 270.745 4 253.834 3 279.954 3 244.376 3 241.267 3 293.839	113.672 85.579 67.686 50.767 46.666 34.911	0.690117 0.193103 0.148345 0.134597 0.075691 0.054713	2 3 4 5 6 7 8	5.515 9.772 13.029 16.287 19.544 22.801
-0.4347180E 0 -0.371695F 0 0.1616738F 0 -0.4545837E 0 -0.152156E 0 -0.1585248F 0 -0.1691592E 0 0.4679601E 0 0.8103298F 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563F 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 3 -0.3085537E -0.1104291E 0.6673773F	04 0.579 04 0.162 04 0.124 04 0.163 03 0.635 03 0.459 03 0.251 03 0.120 02 0.672	034 0E 04 020 TE 04 466 TE 04 274 2E 04 0764 E 03 063 2E 03 880 SE 03 729 6E 03	4 221.343 4 256.727 4 270.745 6 253.824 3 279.994 3 244.376 3 293.839 2 83.077	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 8.308	0.650117 0.193103 0.146345 0.134597 0.075691 0.054713 0.041939	2 3 4 5 6 7 8 9	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573
-0.4347180E 0 -0.3716935E 0 -0.1616738E 0 -0.4545837E 0 -0.1515248E 0 -0.1651592E 0 -0.1673601E 0 0.8103298E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 3 -0.3085537E 2 -0.1104291E 1 0.6673773E	04 0.579 04 0.162 04 0.124 04 0.163 03 0.675 02 0.459 03 0.250 03 0.250 03 0.250 03 0.250 03 0.250 03 0.250 03 0.672	034 © 04 020 % 04 466 % 04 274 ZE 04 274 ZE 04 0.63 ZE 03 880 SE 03 7 29 Æ 03 278 4E 03	4 221.343 4 256.327 270.745 6 253.834 3 279.994 3 244.375 3 241.267 3 293.839 2 83.077	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 8.308	0.690117 0.193103 0.148345 0.134597 0.075691 0.054713 0.041939 0.014389 0.008012	2 3 4 5 6 7 8 9	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573
-0.4347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.11J2156E 0 -0.1651592E 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARPONIC ANALYS CYERALL CYCLIC	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS MODEL CL8705 LOAC = 0.1058C SEC 8.27	04 0.579 04 0.162 04 0.163 03 0.675 03 0.251 03 0.251 03 0.251 SHIP 33 8E C5	0 34 0E 04 0	4 221.343 4 256.327 4 270.745 4 253.834 3 279.564 3 244.376 3 241.267 3 293.839 2 83.077	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 3.308	0.690117 0.193130 0.1469345 0.134597 0.075691 0.054713 0.041939 0.014389 0.008012	2 3 4 5 6 7 8 9 10	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573
-0.4347180E 0 -0.3716935E 0 -0.1616738E 0 -0.4545837E 0 -0.1515248E 0 -0.1651592E 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARPONIC ANALYS CVERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS PODEL CL8705 LOAC = 0.1058C SEC 8.27	04 0.579 04 0.162 04 0.124 04 0.163 03 0.675 02 0.459 03 0.251 03 0.120 02 0.672	0 34 位 04 0 46 年 04 2 74 程 0 2 74 程 0 0 6 3 7 9 8 8 0 年 0 7 2 9 4 0 7 2 7 8 4 0 7 2 7 8 6 0 7 2 7 8 6 0 7 2 7 8 6 0 7 2 7 8 6 0	4 221.343 4 256.727 4 270.745 6 253.824 3 279.994 3 244.376 3 241.267 3 293.839 2 83.077 CTR 7 F	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 3.308	0.690117 0.193103 0.146345 0.194597 0.075691 0.054713 0.041939 0.014389 0.004012	2 3 4 5 6 7 8 9 10	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573
-0.4347180E 0 -0.3716935F 0 -0.1616738E 0 -0.4545837E 0 -0.1515248E 0 -0.1515248E 0 -0.1615328 0 0.4679601E 0 0.8103298F 0 HARMONIC ANALYS CYERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 C.8262016E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563F 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 3 -0.104291E 1 0.6673773F IS MODEL CL8705 LDAC = 0.1048C SEC 8.27 BJ 5 -0.5288051E	04 0.579 04 0.162 04 0.124 04 0.124 04 0.163 03 0.635 02 0.459 03 0.120 02 0.672	0 34 0E 04 0 20 TE 04 466 TE 0 2 74 2E 04 0 73 4 2E 04 0 73 2E 04 7 20 4E 05 7 20 4E 05 7 20 4E 05 7 20 4E 05	4 221.343 4 256.737 4 270.745 6 253.834 3 279.994 3 241.267 3 293.839 2 83.077 CTR 7 F -30500.00 PHI JC 4 326.850	11J.672 85.579 67.686 50.767 46.666 34.911 3J.153 32.649 8.308	0.690117 0.193103 0.148345 0.134597 0.075691 0.054713 0.041939 0.014389 0.008012	2 3 4 5 6 7 8 9 10	5.515 9.772 13.029 16.287 19.54+ 22.801 24.059 29.316 32.573
-0.4 347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.11J22156E 0 -0.1651592E 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARPONIC ANALYS CYERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 C.8262016E 0 -0.1563451E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS MODEL CL8705 LOAC = 0.1098C SEC 8.27 BJ 5 -0.5288051E 4 -0.5280297F	04 0.579 04 0.162 04 0.163 03 0.675 03 0.251 03 0.120 02 0.672 SHIP 33 0E C5 LCAD/IN L:	0 34 0E 04 0 34 0E 04 466 7E 04 2 74 2E 04 1 764 7E 04 0 63 2F 04 8 80 9E 07 7 29 0E 07 2 72 4E 07 T 017 SED	4 221.343 4 256.737 4 270.745 4 253.834 3 279.994 3 244.376 3 241.267 3 293.839 2 83.077 CTR 7 F -30500.00 PHI JC 4 326.850 4 226.953	11J.672 85.579 67.686 50.767 46.666 34.911 3J.153 32.649 8.308 LT 12.0 PSIJC 326.890 113.477	0.690117 0.193133 0.148345 0.194597 0.075691 0.054713 0.041939 0.014389 0.008012	2 3 4 5 6 7 8 9 10	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43
-0.4347180E 0 -0.3716935E 0 -0.1616738E 0 -0.4545837E 0 -0.151526E 0 -0.161539E 0 -0.161592E 0 0.4679601E 0 0.8103298E 0 HARMONIC ANALYS CYERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 -0.1623451E 0 -0.1643451E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS MODEL CL8705 LDAC = 0.1048C SEC 8.27 BJ 5 -0.5288051E 4 -0.5288051E 4 -0.2102097E 3 0.299629E	04 0.579 04 0.162 04 0.163 03 0.635 03 0.251 03 0.120 02 0.672 SHIP 33 8E C5 LCAD/IN L: 04 0.566 04 0.567	T 017 T 017 SED CJ 367.7E 05 544.4E 05 544.4E 05 544.4E 05	4 221.343 4 256.737 4 270.745 4 253.834 3 279.554 3 244.376 3 241.267 3 293.839 2 83.077 CVR 7 F -30500.00 PHI JC 4 326.650 4 226.553 3 29.657	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 3.308 LT 12.0 PSIJC 326.890 113.477 9.619	0.690117 0.193133 0.148345 0.194597 0.075691 0.056713 0.041939 0.014389 0.008012	2 3 4 5 6 7 8 9 10 LAP BEND	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43
-0.4347180E 0 -0.3716935E 0 -0.1616738E 0 -0.4545837E 0 -0.155248E 0 -0.155248E 0 -0.1673601E 0 0.8103298E 0 HARMONIC ANALYS CVERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 -0.5443479E 0 -0.4494661E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 3 -0.3085537E 2 -0.1104291E 1 0.6673773E IS PODEL CL8705 LOAC = 0.1058C SEC 8.27 BJ 5 4 -0.5288051E 4 -0.2102097E 3 0.299679E 3 0.4671204E	04 0.579 04 0.162 04 0.124 04 0.125 03 0.675 02 0.459 03 0.120 02 0.672 SHIP 33 8E C5 LCAD/IN L: 04 0.566 04 0.566 04 0.671	0 34 0E 04 0 466 7E 0 0 47 47 E 0 0 43 25 0 0 43 25 0 0 43 25 0 0 43 25 0 0 72 45 0 0 72 45 0 0 72 72 45 0 0 73 72 45 0 0 73 72 45 0 0 73 72 45 0 0 73 72 45 0 0 73 72 45 0 0 73 72 45 0 0 73 72 45 0 0 73 72 72 72 72 72 72 72 72 72 72 72 72 72	4 221.343 4 256.727 4 270.745 6 253.824 3 279.994 3 241.267 3 293.839 2 83.077 CTR 7 F -30500.00 PHIJC 4 326.850 4 276.953 3 28.873 3 28.873	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 8.308 LT 12.0 PSIJC 326.890 113.477 9.619 11.526	0.690117 0.193103 0.146345 0.134597 0.075691 0.051713 0.041939 0.014389 0.004012 TR 11 3 F	2 3 4 5 6 7 7 8 9 10 10 12 3 3 3 4 1	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43
-0.4347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.11J2156E 0 -0.1651592E 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARMONIC ANALYS CYERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 C.8262016E 0 -0.1963451E 0 0.5443479E 0 C.4454661E 0 -0.4187874E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS MODEL CL8705 LOAC = 0.1058C SEC 8.27 BJ 4 -0.5288051E 4 -0.2102092E 3 0.4671204E 3 -0.63796306	04 0.579 04 0.162 04 0.163 03 0.675 03 0.251 03 0.251 03 0.120 02 0.672 SHIP 33 8E C5 LCAD/IN L9 04 0.267 04 0.267 04 0.267 05 0.613 05 0.613	T 017 T 017 SED 244 E 02 254 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02 278 E 02	4 221.343 4 256.737 4 270.745 4 253.834 3 279.964 3 244.376 3 241.267 3 293.839 2 83.077 CTR 7 F -30500.00 PHI JC 4 326.850 4 226.953 3 29.873 4 6.103 3 233.636	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 3.308 LT 12.0 PSIJC 326.890 113.477 9.619 11.526 47.807	0.690117 0.193130 0.148235 0.134597 0.075691 0.054713 0.041939 0.014389 0.00012 TR 11 3 F	2 3 4 5 6 7 8 9 10 LAP BEND	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43
-0.4347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.11J2156E 0 -0.1651592E 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARPONIC ANALYS CVERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 -0.1963451E 0 0.5443479E 0 C.4454661E 0 -0.4167874E 0 0.2710P83E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS PODEL CL8705 LDAL = 0.1048C SEC 8.27 BJ 5 -0.5288051E 4 -0.5288051E 4 -0.2102097E 3 0.4671204E 3 -0.637600E 2 0.2411323E	04 0.579 04 0.162 04 0.163 03 0.635 03 0.251 03 0.120 02 0.672 SHIP 33 0E CE LCAD/IN L: 04 0.566 04 0.567 03 0.611 03 0.612 03 0.612	T 017 SED CJ 367 ZE 0 544 4E 0 5244 E 0 5244 E 0 544 4E 0 544 4E 0 544 4E 0 544 4E 0 544 4E 0 544 4E 0	4 221.343 4 256.737 4 270.745 4 253.824 3 279.954 3 244.376 3 241.267 3 293.839 2 83.017 CTR 7 F -30500.00 PHI JC 4 226.953 3 29.853 4 27.853 4 27.853 3 29.853 4 27.853 4 27.853 4 27.853 3 28.853 4 27.853 4 27.853 4 27.853 4 27.853 8 3 27.853 8 3 27.853 8 3 27.853 8 3 27.853 8 3 27.853 8 3 27.853 8 3 27.853 8 3 27.853	11J.672 85.579 67.686 50.767 46.666 34.911 3J.153 32.649 8.308 LT 12.0 PSIJC 326.890 113.477 9.619 11.526 47.807 13.931	0.690117 0.193130 0.148345 0.194597 0.075691 0.054713 0.041939 0.014389 0.008012 TR 11 3 F	2 3 4 5 6 7 8 9 10 LAP BEND	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43 FREQUENCY 3.257 6.515 9.772 13.029 16.287 19.544
-0.4347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.11J2156E 0 -0.155248F 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARMONIC ANALYS CYERALL CYCLIC ZERC PCSITION U AJ -0.1376319E 0 C.8262016E 0 -0.1643451E 0 C.544347E 0 C.4454661E 0 -0.2710887E 0 -0.2710887E 0 -0.4167874E 0 0.2710887E 0 -0.4241812E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 2 -0.1104291E 1 0.6673773E IS MODEL CL8705 LDAC = 0.1058C SEC 8.27 BJ 5 -0.5388051E 4 -0.5388051E 4 -0.2102097E 3 0.4671204E 3 -0.6379630E 2 0.2411323E 2 -0.2690732E	04 0.579 04 0.162 04 0.162 04 0.163 03 0.675 03 0.251 03 0.170 02 0.672 SHIP 33 8E C5 LCAD/IN L: 04 0.566 04 0.567 04 0.671 03 0.671 03 0.671 03 0.672	T 017 SED CJ 44 E 0 54 4 E 0 CJ 54 4 E 0 CJ 64 4 E 0 CJ 64 4 E 0 CJ 64 6 E 0 CJ 65 6 E 0 CJ 65 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0 CJ 66 6 E 0	221.343 4 256.737 4 270.745 4 253.834 3 279.554 3 244.326 3 244.326 3 293.839 2 83.077 CTR 7 F -30500.00 PHI JC 4 326.850 4 26.853 3 233.637 3 46.103 3 233.638 3 233.638 3 233.638 3 233.638 3 83.585 3 83.585	11J.672 85.579 67.686 50.767 45.666 34.911 3J.153 32.649 8.308 LT 12.0 PSIJC 326.890 113.477 13.679 11.526 47.807 13.931 37.292	0.690117 0.193133 0.148345 0.194597 0.075691 0.051713 0.041939 0.014389 0.008012 TR 11 3 F	2 3 4 5 6 7 8 9 10 10 12 3 3 4 5 6 7 7	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43
-0.4 347180E 0 -0.3716935F 0 0.1616738E 0 -0.4545837E 0 C.11J2156E 0 -0.1651592E 0 -0.1651592E 0 0.4679601E 0 0.8103298E 0 HARPONIC ANALYS CYERALL CYCLIC ZERC PCSITION U AJ -0.1 376319E 0 C.8262016E 0 -0.1563451E 0 0.5443479E 0 C.4454661E 0 -0.4167874E 0 0.2710P83E 0	4 -0.3824930E 3 -0.1576995E 2 -0.1244563E 3 -0.1568184E 3 -0.6254395E 3 -0.4139167E 3 -0.3085537E 2 -0.1104291E 1 0.6673773E IS PODEL CL8705 LOAC = 0.1058C SEC 8.27 BJ 5 +0.5388051E 4 -0.2102097E 3 0.4671204E 3 -0.6379630H 0.2411323E 2 -0.2690732E	04 0.579 04 0.162 04 0.163 03 0.675 03 0.251 03 0.120 02 0.672 SHIP 33 8E C5 LCAD/IN L: 04 0.566 04 0.567 03 0.671 03 0.671	T 017 SED CJ 367 ZE 0 544 4E 0 5244 E 0 5244 E 0 544 4E 0 544 4E 0 544 4E 0 544 4E 0 544 4E 0 544 4E 0	4 221.343 4 256.324 4 270.745 4 253.834 3 279.964 3 244.376 3 241.267 3 293.839 2 83.077 CTR 7 F -30500.00 PHI JC 4 326.850 4 226.953 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.833 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853 3 29.853	11J.672 85.579 67.686 50.767 46.666 34.911 3J.153 32.649 8.308 LT 12.0 PSIJC 326.890 113.477 9.619 11.526 47.807 13.931	0.690117 0.193130 0.148345 0.194597 0.075691 0.054713 0.041939 0.014389 0.008012 TR 11 3 F	2 3 4 5 6 7 7 8 9 10 12 2 3 3 4 5 6 7 8	5.515 9.772 13.029 16.287 19.544 22.801 24.059 29.316 32.573 STA 43 FREQUENCY 3.257 6.515 9.772 13.029 16.287 19.544

Table III. (Continued)

TEST 12 N	- 4	(CONTINUED)										
				-					****			
		PODEL CL8705 4[_=_ 0.406221			T 017	CTR	7 FLT	12.0	TR 41	2 FLAP	BEND	STA 118
ZERO PCSITIO	N USE	0.39	LCAD/	IA USE	D	-14150.	o c					
AJ -0.2502324	E 04	BJ		CJ		PHI	<u>ıc</u>	P · I JC	CJ/C	J MA X	J	FREQUENCY
0.2185821		-0.2414861E		<u>.22598</u>				312.202	1.CO		1	3.257
-0.7546626		-0.6626556E		.74756				92.507	0.23		2	4.515
0.2452055		0.2869329E 0.6307346E		.27743 .64682				15.495 19.299	0.11		3	4.772
0.2866997		0.4090755		.45287				10.966	0.15		- 5	16.297
-0.4409309		-0.9943933E		.16877				41.014	0.03		6	19.544
0.7516406		-0.2199009E		.78314				- 7. 097		4024	7	22.801
0.381985		-0.94630136	01 0	.35353	2 3F 02	346.	Cee	43.261		2 C7 2	9	25.059
-0.3743455		0.3540945E		.19586				10.003	0.01		9	29.314
-0.2753845	E OZ	0,9491579E	02 0	<u>.58942</u>	2 OE 02	105.	402	10.640	0.03	0351	10	32.573
		PODEL CL8705		23	T 017	CTR	7 FLT	12.0	TR 34	2 CHOR	BEND	STA 21.
ZERC PCSITIO	N USE	3.12	L CAD/	IA LSE	D	-20600.	00					
AJ		L9		CJ		PHT	JC.	PST JC	CJ/C	XAML		FFEQUENCY
0.1030023	IE 05	•				_					-	
0.7607542		0.1359643E		.1:58C				60.772	0.46		1	3.2*7
0.3256868		.0.7750538E		.22478				a • 693	1.00		2	5.515
-0.8058291		0.4183872E		• 92713				49.763	0.27		3	9.772
-0.6193899 -0.4357150		-0.1216505E		<u>. 12651</u> . 17257				7 246 51 - 075	0.40			13.029
-0.1513411		0.3777310E		.4(692				16.639	0.01		9	19.5.4
-0.5046461		0.2630836E		. 5 £ 91 C				21.791	0.01		7	22.801
-0.1112117		-0.1986566E		.11297				23.766	0.03		8	25.059
-0.1505544	E 03	-0.4631030E	03 0	.48696	0 SE 03	251.	991	27.999	0.14	5456	9	29.316
0.5390852	E 05	-0.1442687E	02 0	.558C5	<u>5 9E 02</u>	345.	018	34.502	0.01	<u> 666 9</u>	10_	32.573
	JC_LD	MGDEL CL8705 NC = 0.367039	OF (4		T 017	CTP	7 FLT	12.0	TR 38	2 CHCRI	D BE+:D	STA 69
		8.3		CJ		PHI	ic	PS1 JC	CJ/C.	JMa X	J	FREQUENCY
-0.1895565												,
0.1545181		0.1054100E		10654				81.637 0.669	1.00		<u>l</u>	3.257 5.515
0.2054016		0.4797513E 0.4243831E		.2(545 .7471C				49.462	0.36		3	9.772
0.4600786		-0.1037Z40E		. 11301				73.505	0.55		÷	13.029
-0.7752209		-0.2056156F		. 2 2 2 6 3				-9. 922	0.10		5	15.297
0.2752070		0.FE38004E		.93162		72.	560	12.093	0.04		6	19.544
0.2475214		C.9900591E_		.10205				14.962	0.04		7	22.801
-0.88C1459		0.8698443F		. 12367				16.921	0.06		8	2> 059
		-0.50905718	0 70	. 6 7C 6 1:	4 CE 03	229.	= F 4	25.487	0.32	5400	9	29.316
-0.4365593		-Q.7863477F		71653				27.126	0.03		10	32.573

Table III. (Continued)

 									
TEST 12 N =	5		···	_		\			
HARMONIC ANALYS	SIS MODEL CL870 LDAD = 1 0.5798	5 SHIP	33 T	017	CTR 8	FLT 12.0	TR 6 1 FLAP		STA 43
ZERO POSITION I	ISED 9.52	LOAD	/IN USEC)	-26500.00				
AJ -0. 1065204E (BJ		C1		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.4360422E		F 04	0.477535	9F 04	155.93/	B155 . 938	1.000000	1	3.311
-0.4319514E			0.521921				0.109295	<u>-</u>	6.623
0.2628928E			0.47775			6 28,949	0.100045	3	9.934
-0.1933688E			0.329067					4	13.245
-0.7759038E			0.724878					5	16.556
0.1633840E			0.262621					6	19.868
0.3755208E			0. 930691						23.179
0.1094546E (0.110229					8	26.490
0.2857019E (0.800556 0.101766					10	29.801 33.113
HARMONIC ANALYS				017	CTR 8	FLT 12.0	TR 31 2 FLAP	BEND S	STA 43
ZERO POSITION (JSED . 3.75	LOAD	/IN USEC)	26100.00				
AJ	ВЈ		CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1125711E									
-0.2355380E (0.272511					<u>_</u>	3.311
-0.3253708E (0.358334					2	6.623
-0.1358474E			0.486929				0.178682	3	9.934
-0.1570741E			0.192009 0.364737				0.070459 0.133843	- 5	13.245 16.556
0. 1281153E			0.367731 0.149471					6	19.868
-0.4534613E			0.168414					7	23.179
0.1193217E (0.125161		342.426		0.045929	8	26.490
0.1641319E			0.644806				0.023662	9	29.801
-0.4069270E	0.1816687		0.445637			15.594	0.016353	10	33.113
	\$15 MODEL CL870 LOAD = 0.3313 USED 8.27	16E 04	'		CTR 8		TR 11 3 FLAF	BEND :	STA 43
AJ -0.1092228E	BJ 05		CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.2577915E		E 03	0.263654	2E 04	167.89	167.895	1.000000	1	3.311
-0.3038726E			0.307961		189.34	7 94.674		2	6.623
0.1591511E			0.510724				0.193710	3	9.934
0.2680110E			0.305765				0.115972	4	13.245
-0.2168747E			0.371512				0.140909	5	16.556
0.2575215E			0.305508				0.115875	6	19.868
0.1219444E (0.981904						23.179
0.9717383E (0.158819					8	26.490
		E U.5	0.123455	3E 03	77.589	8.621	0.046825	9	29.801
0.3462445E (92 0.7226768	E As	0.801340	45	64.400	6.440	0.030394	10	33.113

Table III. (Continued)

TEST 12 N =	5	(CONTINUED)								
HARMONIC ANAL OVERALL CYCLI				IP 33 T 01		8 FL1	T 12.0	TR 41 2 FLAF	BEND :	STA 118
ZERO POSITION	USEC	0.39	ro,	AD/IN USED	-14150	.00			•	
AJ	•••	8J		CJ	PH	I JC	PSIJC	CJ/CJMAX		FREQUENCY
-0.2052836E 0.5115725E		-0.1085934E	04	0.1200399E	04 295	. 225	295.225	1.00000	1	3.311
0.3099860E		0.6315220E		0.63228226		. 190	43.595	0.526727	2	6.623
0.1061621E	03	0.1914220E	03	0.2188898E	03 60	. 987	20.329	0.182348	3	9.934
-0.2050760E	03	-0.1117708E		0.2335570E		. 591	52.148	0.194566	4	13.245
0.1541414E	03	0.2236341E		0.2716096E		. 423	11.085	0.226266	5	16.556
-0.8629318E		0.9088725E		0.1253276E		515	22.252	0-104405	. 6	19.868
0.1656677E		0.5402710E		0.5651004E_		048	15.293		?	23.179
~0.5665950E		0.1777054E		0.6129216E		146	20.393	0.051060	8	26.490
-0.3602966E -0.1110979E		0.5531934E -0.4610425E		0.6601790E		.076 .451	13.675 25.645	0.054997 0.039507	9 10	29.801 33.113
-0611104146		-0040104232	<u> </u>	0841423832	<u> </u>	<u> </u>	23,043	00037307		,,,,,,,
HARMONIC ANAL					7 CTR	8 FL1	r 12.0	TR 34 2 CHOP	D BEND	STA 21.
ZERO POSITION				AD/IN USED	-20600	.00				
LA.		8.1								
				CJ	PH.	1 JC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.9984500E										
0.1140076E	04_	0-1114950E		_0.1594643E	04 44	. 362	44.362	1.000000	1	3,311
0.1140076E -0.1376998E	04 04	0.1114950E 0.2014568E	03	_0.1594643E_ 0.1391627E	04 44. 04 171.	. 362 . 685	44.362 85.842	1.000000 0.872689	1 2	3.31 <u>1</u> 6.623
0.1140076E -0.1376998E -0.1053495E	04 04 03	0.1114950E 0.2012568E 0.1222585E	03 03	0.1594643E 0.1391627E 0.1613866E	04 44. 04 171. 03 130.	. 362 . 685 . 751	44.362 85.842 43.584	1.000000 0.872689 0.101205	2 3	3.311 6.623 9.934
0.1140076E -0.1376998E -0.1053495E -0.3292848E	04 04 03 02	0-1114950E 0-2014568E 0-1222585E 0-1283208E	03 03 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E	04 44 04 171 03 130 02 158	. 362 . 685 . 751 . 709	44.362 85.842 43.584 39.677	1.000000 0.872689 0.101205 0.022162	1 2 3 4	3.311 6.623 9.934 13.245
0.1140076E -0.1376998E -0.1053495E	04 04 03 02 03	0.1114950E 0.2012568E 0.122585E 0.1283208E -0.1802217E	03 03 02 03	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E	04 44 04 171 03 130 02 158 03 316	. 362 . 685 . 751 . 709	44.362 85.842 43.584 39.677 63.217	1.000000 0.872689 0.101205 0.022162 0.162944	1 2 3 4 5	3.311 6.623 9.934 13.245
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E	04 04 03 02 03 02	0-1114950E 0-2014568E 0-1222585E 0-1283208E	03 03 02 03 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E	04 44 04 171 03 130 02 158 03 316 02 113	. 362 . 685 . 751 . 709	44.362 85.842 43.584 39.677	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815	1 2 3 4	3.311 6.623 9.934 13.245 16.556 19.868
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E	04 04 03 02 03 02 02	0.1114950E 0.2012568E 0.122585E 0.1283208E -0.1802217E 0.6262630E	03 03 02 03 02 01	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E	04 44 04 171 03 130 02 158 03 316 02 113 02 5	. 362 . 685 . 751 . 709 . 085	44.362 85.842 43.584 39.677 63.217 18.912	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328	1 2 3 4 5 6	3.311 6.623 9.934 13.245 16.556 19.868 23.179
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E	04 04 03 02 03 02 02 01	0.1114950E 0.2012568E 0.122585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E	03 03 02 03 02 01 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E	04 44 04 171 03 130 02 158 03 316 02 113 02 5 02 93	. 362 . 685 . 751 . 709 . 085 . 470 . 134	44.362 85.842 43.584 39.677 63.217 18.912 0.733	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815	1 2 3 4 5 6 7	3.311 6.623 9.934 13.245 16.556 19.868 23.179 26.490
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E	04 03 02 03 02 02 02 01 03	0.1114950E 0.2012568E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E	03 03 02 03 02 01 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E	04 44 04 171 03 130 02 158 03 316 02 113 02 13 02 93 03 201	. 362 . 685 . 751 . 709 . 085 . 470 . 134	44.362 85.842 43.584 39.677 63.217 18.912 0.733	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831	1 2 3 4 5 6 7 8	3.311 6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E	04 03 02 03 02 02 02 01 03	0.1114950E 0.2012568E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.9629000E	03 03 02 03 02 01 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E	04 44 04 171 03 130 02 158 03 316 02 113 02 13 02 93 03 201	362 685 751 709 085 470 134 770	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831	1 2 3 4 5 6 7 8	FREQUENCY 3.311 6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E	04 04 03 02 03 02 02 01 03 02 YSIS	0.1114950E 0.2012568E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.38899631E 0.5572145E -0.9629060E 0.1905295E	03 03 02 03 02 01 02 02 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 02 93. 03 201. 02 12.	362 685 751 709 085 470 134 770 354	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831	1 2 3 4 5 6 7 8 9	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI	04 04 03 02 03 02 01 03 02 VSIS C LOA	0.1114950E 0.2012585E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.962900E 0.1905295E	03 03 02 03 02 01 02 02 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 02 93. 03 201. 02 12.	362 685 .751 .709 .085 .470 .134 .770 .354 .064	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166	1 2 3 4 5 6 7 8 9	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION AJ -0.2066398E	04 04 03 02 02 02 01 03 02 VSIS C LOA	0.1114950E 0.2012585E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.96290bE 0.1905295E MODEL CL8705 D = 0.173466	03 03 02 03 02 01 02 02 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E IP 33 T 01	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 02 93. 03 201. 02 12.	. 362 . 685 . 751 . 709 . 085 . 470 . 134 . 770 . 354 . 064	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166	1 2 3 4 5 6 7 8 9	3,311 6.623 9,934 13.245 16.556 19,868 23.179 26.490 29.801 33.113
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION AJ -0.2066398E 0.4002170E	04 04 03 02 03 02 01 03 02 01 03 02 VSED	0.1114950E 0.2012585E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.962906E 0.1905295E MODEL CL8705 0 = 0.173466	03 03 02 03 02 01 02 02 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E IP 33 T 01 AD/IN USED CJ 0.8931633E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 02 93. 02 12. 7 CTR PH. 03 63.	362 .685 .751 .709 .085 .470 .134 .770 .354 .064	44.362 85.842 43.584 39.677 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR	1 2 3 4 5 6 7 8 9 10	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113 STA 69
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E MARMONIC ANAL OVERALL CYCLI ZERO POSITION AJ -0.2066398E 0.4002170E -0.5514990E	04 04 03 02 02 01 03 02 VSIS C LOA USED	0.1114950E 0.20125685E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.9629060E 0.1905295E MODEL CL8705 0 = 0.173466	03 03 02 03 02 01 02 02 02 02 02 04 LOZ	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E IP 33 T 01 AD/IN USED CJ 0.8931633E 0.5557544E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 5. 02 93. 03 201. 02 12. 7 CTR 16200. PH	362 .685 .751 .709 .085 .470 .134 .770 .354 .064	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR	1 2 3 4 5 6 7 8 9 10	3.311 6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69
0.1140076E -0.1376998E -0.1053495E -0.2292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION -0.2066398E 0.4002170E -0.5514990E -0.8013118E	04 03 02 03 02 03 02 01 03 02 VSED 04 03 03	0.1114950E 0.2012585E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.962900B 0.1905295E MODEL CL8705 0 = 0.173466 0 = 0.7984780E 0.6864290E 0.1757852E	03 03 02 03 02 01 02 02 02 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E AD/IN USED CJ 0.8931633E 0.5557544E 0.1931903E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 03 201. 03 201. 7 CTR 16200. PH 03 63. 03 114.	362 685 751 709 085 470 134 770 354 0064	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR	1 2 3 4 5 6 7 8 9 10	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113 STA 69 FREQUENCY 3,311 6,623 9,934
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION -0.2066398E 0.4002170E -0.5514990E -0.8013118E -0.2078635E	04 03 02 03 02 01 03 02 7SIS C LOA USED 04 03 03 02	0.1114950E 0.2012585E 0.1222585E 0.1283208E -0.1802217E 0.6662630E 0.3899631E 0.5572145E -0.962906E 0.1905295E MODEL CL8705 0 = 0.173466 1.25 BJ 0.7984780E 0.6864290E 0.1757862E 0.6464606E	03 03 02 03 02 01 02 02 02 02 02 04 04	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E IP 33 T 01 AD/IN USED CJ 0.8931633E 0.5557546E 0.1931903E 0.2950330E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 02 93. 03 201. 02 12. 7 CTR 16200. PH. 03 63. 03 172. 03 114. 02 167	. 362 . 685 . 751 . 709 . 085 . 470 . 134 . 770 . 354 . 064 . 8 FL1	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR	1 2 3 4 5 6 7 8 9 10	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113 STA 69 FREQUENCY 3,311 6,623 9,934 13,245
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION -0.2066398E 0.4002170E -0.5514990E -0.8013118E -0.2878635E 0.6290211E	04 04 03 02 03 02 02 01 03 02 VSED 04 03 03 02 04 03 03 02 02	0.1114950E 0.2012585E 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.962906E 0.1905295E MODEL CL8705 0. = 0.173466 0. 1757862E 0.6464606E -0.1777250E	03 03 02 03 02 01 02 02 02 02 02 04 04 05	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E IP 33 T 01 AD/IN USED CJ 0.8931633E 0.5557544E 0.1931903E 0.2950330E 0.1961095E	04 44. 04 171. 03 130. 02 158. 03 316. 02 133. 02 93. 02 93. 02 12. 7 CTR 16200. PH. 03 63. 03 172. 03 114. 02 167.	362 .685 .751 .709 .085 .470 .134 .770 .354 .064 .064 .064	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206 12.0 PSIJC 63.379 86.453 38.168 41.836	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR	1 2 3 4 5 6 7 8 9 10	3.311 6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69 FREQUENCY 3.311 6.623 9.934 13.245
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.43490353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION -0.2066398E 0.4002170E -0.5514990E -0.6013118E -0.2878635E 0.6290211E -0.5001443E	04 04 03 02 03 02 01 03 02 01 03 02 04 03 03 02 04 03 03 02 02 03 02 03 02 03 02 03 04 05 06 07 07 07 07 07 07 07 07 07 07	0.1114950E 0.2012568E 0.122585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.962900E 0.1905295E MODEL CL8705 0 = 0.173466 0.6864290E 0.1757802E 0.6466406E -0.1777250E	03 03 02 03 02 01 02 02 02 02 02 02 03 04 00 02 02 02 02 02	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E AD/IN USED CJ 0.8931633E 0.5557544E 0.1931903E 0.2950330E 0.1961095E 0.7080669E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 02 93. 03 201. 02 12. 7 CTR 16200. PH 03 63. 03 172. 03 114. 02 167. 03 295. 03 2134.	. 362 . 685 . 751 . 709 . 085 . 470 . 134 . 770 . 134 . 770 . 134 . 064 . 8 FL1	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206 7 12.0 PSIJC 63.379 86.453 38.168 41.836 59.001 22.490	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR CJ/CJMAX 1.000000 0.622231 0.216299 0.033032 0.219567 0.079276	1 2 3 4 5 6 7 8 9 10	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113 STA 69 FREQUENCY 3,311 6,623 9,934 13,245 16,556 19,868
0.1140076E -0.137698E -0.137698E -0.3292848E 0.1871789E -0.2719141E 0.4340353E -0.3671875E -0.2462867E 0.8914004E HARMONIC ANAL OVERALL CYCLI ZERO POSITION -0.2066398E 0.4002170E -0.551490E -0.6013118E -0.2078635E 0.6290211E -0.5001443E -0.6858734E	04 04 03 02 03 02 02 01 03 02 04 03 03 02 04 03 03 02 02 03 02 03 02 03 02 03 03 04 05 05 05 06 07 07 07 07 07 07 07 07 07 07	0.1114950E 0.201250B 0.201250B 0.1222585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.96290bE 0.1905295E MODEL CL8705 D = 0.173466 0.6864290E 0.17578b2E 0.646406E -0.1777250E 0.5012128E 0.5012128E	03 03 02 03 02 01 02 02 02 02 02 03 01 03 02 03 04 04	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E AD/IN USED CJ 0.8931633E 0.5557546E 0.1931903E 0.2950330E 0.1961095E 0.7080669E 0.7275520E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 03 201. 03 10. 7 CTR 16200. PH 03 63. 172. 03 174. 02 167. 03 295. 02 134. 02 167.	8 FL1 000 IJC 379 905 343 007 939 9512	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206 7 12.0 PSIJC 63.379 86.453 38.168 41.836 59.001 22.490 22.930	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR CJ/CJMAX 1.000000 0.622231 0.216299 0.033032 0.219567 0.079276 0.081458	1 2 3 4 5 6 7 8 9 10	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113 STA 69 FREQUENCY 3,31 6,623 9,934 13,245 10,556 19,868 23,179
0.1140076E -0.1376998E -0.1053495E -0.3292848E 0.1871789E -0.2719141E 0.43490353E -0.3671875E -0.2462867E 0.8914604E HARMONIC ANAL OVERALL CYCLI ZERO POSITION -0.2066398E 0.4002170E -0.5514990E -0.6013118E -0.2878635E 0.6290211E -0.5001443E	04 04 03 02 03 02 02 01 03 02 02 04 03 03 03 02 02 03 02 03 02 03 02 03 02 03 03 02 03 03 04 05 05 06 07 07 07 07 07 07 07 07 07 07	0.1114950E 0.2012568E 0.122585E 0.1283208E -0.1802217E 0.6262630E 0.3899631E 0.5572145E -0.962900E 0.1905295E MODEL CL8705 0 = 0.173466 0.6864290E 0.1757802E 0.6466406E -0.1777250E	03 03 02 02 02 02 02 02 02 02 02 02 02 03 04 04 05 04 05 05 06 07 07 07 07 07 07 07 07 07 07 07 07 07	0.1594643E 0.1391627E 0.1613866E 0.3534044E 0.2598379E 0.6827461E 0.4357837E 0.5584230E 0.2644409E 0.9115935E AD/IN USED CJ 0.8931633E 0.5557544E 0.1931903E 0.2950330E 0.1961095E 0.7080669E	04 44. 04 171. 03 130. 02 158. 03 316. 02 113. 02 93. 03 201. 03 12. 7 CTR 16200. PH. 03 63. 03 172. 03 114. 02 167. 03 295. 02 134. 02 160.	. 362 . 685 . 751 . 709 . 085 . 470 . 134 . 770 . 134 . 770 . 134 . 064 . 8 FL1	44.362 85.842 43.584 39.677 63.217 18.912 0.733 11.721 22.373 1.206 7 12.0 PSIJC 63.379 86.453 38.168 41.836 59.001 22.490	1.000000 0.872689 0.101205 0.022162 0.162944 0.042815 0.027328 0.035019 0.165831 0.057166 TR 38 2 CHOR CJ/CJMAX 1.000000 0.622231 0.216299 0.033032 0.219567 0.079276	1 2 3 4 5 6 7 8 9 10	3,311 6,623 9,934 13,245 16,556 19,868 23,179 26,490 29,801 33,113 STA 69 FREQUENCY 3,311 6,623 9,934 13,245 16,556 19,868

Table III. (Continued)

TEST 12 N = 6							,-,-			
HARMONIC ANALYSI	S MODEL CL8705	SHIP	33 T 0)17	CTR 9	FLT	12.0	TR 6 1 FI	AP BEND	STA 43
	OAD = 0.324876E	•					···· ··· ···			·
ZERO PCSITION US	ED 9.52	LOAD/IN	USED		-26500.00					
AJ -0.1118668E 05	BJ		CJ		PHIJC		PSIJC	CJ/CJMAX	J	FREQUENCY
-0,6394414E 03		4 0.2	334607E	04	105.89	6 1	05.896	1.000000		3.311
-0.8747993E 03			0531238	03			97.459	0.387779		6.623
0.1384514E 03			3222926				23.773	0.185140		9.934
0.6941992E 02			1891726				19.357			13,245
-0.4712000E 03			3603008				46.039			16.556
0.1061531E 03	0.128969ZE 0		670375E				8.424	0.071548		19.868
-0.2540971E 02 0.2423122E 02	-0.1482852E 0		504465E 889845E				37.182	0.064442 0.020945		23.179_ 26.490
0.4049663E 02			4141256				6.321	0.020743	_	29.801
0.1642165E 02			3167016				29.236			33.113
				=						
OVERALL CYCLIC L	S MODEL CL8705 DAD = 0.287571E	04					12.0	TR 31 2 F	LAP BEND	STA 43
ZERO POSITION US		LOAC/IN			26100.00					
LA	8.1		CJ		PHIJC		PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1211169E 05										
0,1244799E_04								1.000000		3,311
-0.8805432E 03			1103898				08.766			6.623
0,1665851E 03			7879718				21.303		_	9.934
0.1530436E 03 -0.5153611E 03			722864E				13.950	0.166322		13.245
0.3554427E 02			6541928				43.055 57.763	0.385592 0.022321		16.556 19.868
-0.9613454E 02			6040876				33.530	0.101648		23.179
0.6993565E 02			7124686				39.507			26.490
0.1021829E 03			0219316				39.910	0.062423		29.801
-0.2751518E 01			0339006				26.480	0.018532		33.113
	S MODEL CL8705							TR 11 3 F	LAP BEND	STA 43
LERO POSITION US	OAD = 0.298185E	LOAD/IN			-30500.00		· · · · · · · · · · · · · · · · · · ·			
LA	8.1		CJ				DS1 10	CJ/CJMAX	 j-	FREQUENCY
-0.1171162E 05	;		447026E						_	14
-0.5561250E 03			1560058				30.153	1.000000 0.798883	1	3.311_ 6.623
0.3226389E 03			658679E				15.389	0.321949	3	9.934
0.1446413E 03			5379448				16.467	0.244498	4	13.245
-0.2255669E 03			150627				49.697	0.425053		16,556
-0.3261880E 02			344461E				16.333	0.162019	6	19.868
-0.2774338E 02			481025E				37.654	0.171457	7	23.179
-0.7011078E 02			355037E			0	18.381	0.057739		26.490
0.2033972E 02 0.9818467E 01		3 0.1	412784E	03	278.27	8	30.920	0.097634	9	29.801

Table III. (Continued)

TEST 12 # =	5 ((CONTINUED)											
HARMONIC ANALY	C' FOVE	40DEL CL8705 D = 0.188842	SH1				CTR 9	FLT	12.0	TR 41	2 FLAP	BEND	STA 118
ZERO POSITION	USED	0.39	LÜA	D/IN US	ED		-14150.00						
AJ -0.2174766E	04	RJ	•	C	J		PHI JC		PSIJC	CJ/C	XAML	J	FREQUENCY
0.1152179E		-0.1237506E	04	0.1690	A 30F	: 04	312.955	5	312.955	1.00	0000	1	3,311
-0.1122187E		0.3063916E		0.3262					55.058		2979	2	6.623
0.7467464E		0.1326409E	03	0.1522	167E	03	60.621	ì	20.207	0.09	0024	3	9.934
-0.5284370E	02	0.1292657E		0.1396					28.059		2592		13.245
0.3941631E		0.26217908		0.4733					6.726		9976	5	16.556
-0.4703850E		0.5945892E		0.5964					15.754		5275	6	19.868
0.5847498E		_0.6619096E		0.8832							2235		23.1 79
-0.3776984E		0.2690114E		0.4637					18.068		7425	8 9	26.490
0.2405599E -0.2046969E		0.3591895E 0.9782593E		0.3599					9.574		1291	10	29.801 33.113
												•	•
ARMONIC ANALY VERALL CYCLIC ERO POSITION	C_LOAC		E 04				CTR 9	FLT	12.0	TR 34	2 CHOR	D BEND	STA 21.
AJ		BJ		C			PHIJC		PSIJC	CJ/C	XAML	J	FREQUENCY
0.1041107E	05												
			. .										
0.1062064E	04	0.1030234E		0.1479					44.128		0000	1	
0.1062064E 0.6474116E	04 03	0.12822298	04	0.1436	403E	04	63.210)	31.605	0.97	0772	2	3.311 6.623
0.1062064E 0.6474116E -0.1779018E	04 03 03	0.1282229E 0.6624917E	04 03	0.1436	403E 624E	04 03	63.210 105.031)	31.605 35.010	0.97 0.46	0772 3598	3	6.623 9.934
0.1062064E 0.6474116E -0.1779018E 0.5705859E	04 03 03 02	0.1282229E 0.6624917E -0.4352473E	04 03 03	0.1436 0.6859 0.4389	403E 624E 712E	04 03 03	63.210 105.031 277.469) l	31.605 35.010 69.367	0.97 0.46 0.29	0772 3598 6672	3	6.623 9.934 13.245
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E	04 03 03 02 03	0.1282229E 0.6624917E -0.4352473E -0.2052318E	04 03 03	0.1436 0.6859 0.4389 0.2559	403E 624E 712E 986E	04 03 03	63.210 105.031 277.469 306.708) 	31.605 35.010 69.367 61.342	0.97 0.46 0.29 0.17	0772 3598 <u>6672</u> 3013	3 4 5	6.623 9.934 13.245 16.556
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E	04 03 03 02 03 02	0.1282229E 0.6624917E -0.4352473E -0.205231bE 0.1255295E	04 03 03 03 02	0.1436 0.6859 0.4389 0.2559 0.4942	403E 624E 712E 986E 471E	04 03 03 03 02	63.210 105.031 277.469 306.708 14.713) 	31.605 35.010 69.367 61.342 2.452	0.97 0.46 0.29 0.17 0.03	0772 3598 6672 3013 3403	3 4 5 6	6.623 9.934 13.245 16.556 19.868
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.478040JE 0.196940JE	04 03 03 02 03 02 01	0.1282229E 0.6624917E -0.4352473E -0.2052318E	04 03 03 03 02 03	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275	403E 624E 712E 986E 471E 222E	04 03 03 03 02 03	63.210 105.031 277.469 306.708 14.713 89.115) 	31.605 35.010 69.367 61.342 2.452 12.731	0.97 0.46 0.29 0.17 0.03 0.08	0772 3598 6672 3013 3403 6184	3 4 5	6.623 9.934 13.245 16.556 19.868 23.179
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E	04 03 03 02 03 02 01	0.1282229E 0.6624917E -0.4352473E -0.205231BE 0.1255295E 0.1275070E	04 03 03 03 02 03	0.1436 0.6859 0.4389 0.2559 0.4942	403E 624E 712E 986E 471E 222E 052E	04 03 03 03 02 03	63.210 105.031 277.469 306.708 14.713 89.115	3	31.605 35.010 69.367 61.342 2.452	0.97 0.46 0.29 0.17 0.03 0.08	0772 3598 6672 3013 3403	3 4 5 6 7	6.623 9.934 13.245 16.556 19.868 23.179 26.490
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969403E	04 03 03 02 03 02 01 02 03	0.1282229E 0.6624917E -0.4352473E -0.205231bE 0.1255295E 0.1275070E 0.2721440E	04 03 03 03 02 03 02 03	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275	403E 624E 712E 986E 471E 222E 052E	04 03 03 03 02 03 02 03	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994	3	31.605 35.010 69.367 61.342 2.452 12.731 8.113	0.97 0.46 0.29 0.17 0.03 0.08 0.02 0.32	0772 3598 6672 3013 3403 6184 0309	3 4 5 6 7 8	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969403E -0.4025212E -0.6762912E	04 03 03 02 03 02 01 02 03 01	0.1282229E 0.6624917E -0.4352473E -0.2052318E 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166156E	04 03 03 03 02 03 02 03 02	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197	403E 624E 712E 986E 471E 222E 052E 951E 995E	04 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609	3 3 5 7	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461	0.97 0.46 0.29 0.17 0.03 0.08 0.02 0.32 0.04	0772 3598 6672 3013 3403 6184 0309 8115 8647	3 4 5 6 7 8 9	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969403E 0.1274403E	04 03 03 02 03 02 01 02 03 01	0.1282229E 0.6624917E -0.4352473E -0.205231bE 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166150E	04 03 03 03 02 03 02 03 02 03 02	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197	403E 624E 712E 986E 471E 222E 052E 951E 995E	04 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609	3 3 5 7	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777	0.97 0.46 0.29 0.17 0.03 0.08 0.02 0.32 0.04	0772 3598 6672 3013 3403 6184 0309 8115 8647	3 4 5 6 7 8 9	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969400E -0.1274403E -0.4025212E -0.6762912E	04 03 03 02 03 02 01 02 03 01	0.1282229E 0.6624917E -0.4352473E 0.1255255E 0.1275070E 0.2721440E -0.2714448E -0.7166156E	04 03 03 03 02 03 02 03 02 03 02 03 02	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197	403E 624E 712E 986E 471E 222E 052E 951E 995E	04 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609	3 3 5 7	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461	0.97 0.46 0.29 0.17 0.03 0.08 0.02 0.32 0.04	0772 3598 6672 3013 3403 6184 0309 8115 8647	3 4 5 6 7 8 9	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIC ERO POSITION	04 03 03 02 03 02 03 01 02 03 01 VSIS M	0.1282229E 0.6624917E -0.4352473E -0.205231bE 0.1255295E 0.1275070E 0.2721440E -0.271444BE -0.7166156E	04 03 03 03 02 03 02 03 02 03 02 SHII E 04	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.3054 0.7197	403E 624E 712E 986E 471E 222E 052E 955E 7 0	04 03 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609	FLT	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461	0.97 0.46 0.29 0.17 0.03 0.08 0.02 0.32 0.04	0772 3598 6672 3013 3403 6184 0309 8115 8647	3 4 5 6 7 8 9	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.1969403E 0.1274403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIO ERO POSITION AJ -0.2061463E 0.3799663E	04 03 03 02 03 02 01 02 03 01 VSIS M LOAD	0.1282229E 0.6624917E -0.4352473E 0.1255245E 0.1255255E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 10DEL CL8705 = 0.211173 1.25 BJ 0.7993181E	04 03 03 03 02 03 02 03 02 SHIS E 04 LUAI	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197	403E 624E 712E 986E 471E 222E 951E 995E 7 0	04 03 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609	FLT	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461	0.97 0.46 0.29 0.17 0.03 0.02 0.32 0.04	0772 3598 6672 3013 3403 6184 0309 8115 8647	3 4 5 6 7 8 9 10 D BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1274403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIO ERO POSITION AJ -0.2061463E 0.3799863E 0.5911396E	04 03 03 02 03 02 01 02 03 01 (SIS M LOAD USED	0.1282229E 0.6624917E -0.4352473E 0.1255275E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 10DEL CL8705 = 0.211173 1.25 BJ 0.7993181E 0.5064359E	04 03 03 03 02 03 02 03 02 03 02 LUAI	0.1436 0.6859 0.4889 0.2559 0.4942 0.1205 0.3005 0.4854 0.7197	403E 624E 712E 986E 471E 2052E 951E 995E T 0	04 03 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587	FLT	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461 12.0 PSIJC 64.574 20.294	0.97 0.46 0.29 0.17 0.03 0.02 0.02 0.04	0772 3598 6672 3013 3403 6185 0309 8115 8647	3 4 5 6 7 8 9 10 D BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969400E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIO ERO POSITION AJ -0.2061463E 0.3799863E 0.5911396E -0.5890445E	04 03 03 02 03 02 01 02 03 01 (SIS M LOAD	0.1282229E 0.6624917E -0.4352473E 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 100EL CL8705 = 0.211173 1.25 BJ 0.7993181E 0.5064349E 0.4358894E	04 03 03 03 02 03 02 03 02 SHIS E 04 LUAI	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197	403E 624E 712E 986E 422ZE 951E 22ZE 951E 102E	04 03 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.97 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587 97.627	FLT	31.605 35.010 69.367 61.342 2.452 12.731 323.777 26.461 12.0 PSIJC 64.574 20.294 32.542	0.97 0.46 0.29 0.17 0.03 0.02 0.32 0.04 TR 38	0772 3598 6672 3013 3403 6184 0309 8115 8647	3 4 5 6 7 8 9 10 BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.1969400E 0.1274403E -0.4025212E -0.6762912E ARMONIC ANALY /ERALL CYCLIC ERO POSITION AJ -0.2061463E 0.3799863E 0.3799863E 0.5891445E 0.1057641E	04 03 03 02 03 02 01 02 03 01 VSIS M USED 04 03 03 03	0.1282229E 0.6624917E -0.4352473E 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 10DEL CL8705 0.221173 1.25 BJ 0.7993181E 0.438894E 0.438894E -0.3152168E	04 03 03 03 02 03 02 03 02 SHIS E 04 LUAI	0.1436 0.6859 0.4389 0.4259 0.4942 0.1275 0.3055 0.4854 0.7197 33 0/IN US 0.8850 0.7784 0.438 0.4338	403E 624E 712E 986E 471E 222E 995E T 0 ED J 417E 1162E 934E	04 03 03 03 02 03 02 03 02	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587 97.627 288.551	FLT	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461 12.0 PSIJC 64.574 20.294 72.138	0.97 0.46 0.27 0.17 0.03 0.08 0.02 0.04 TR 38	0772 3598 6672 3013 3403 6184 0309 8115 8647 2 CHDRI	3 4 5 6 7 8 9 10 BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69 FREQUENCY 3.311 6.623 9.934
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.1969403E 0.1274403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIC ERO POSITION -0.2061463E 0.3799863E 0.5911396E -0.589045E 0.1057641E 0.2366228E	04 03 02 03 02 01 02 03 01 02 03 01 USED 04 03 03 02 03	0.1282229E 0.6624917E -0.4352473E 0.1255255E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 10DEL CL8705 0.211173 1.25 BJ 0.7993181E 0.5064399E 0.4358899E -0.3152168E -0.2353740E	04 03 03 03 02 03 02 03 02 03 02 LUAI	0.1436 0.6859 0.4389 0.2559 0.4942 0.3005 0.4854 0.7197 33 0/IN US C 0.8850 0.7784 0.4384 0.4384 0.4384	403E 624E 712E 947LE 947LE 222E 995E T 0 ED 417E 133E 1934E 1934E	04 03 03 03 02 03 02 03 02 03 03 03 03 03 03 03 03	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587 97.6222	FLT	31.605 35.010 69.367 61.342 2.452 12.731 8.113 23.777 26.461 12.0 PSIJC 64.574 20.294 32.5138 55.244	0.97 0.46 0.29 0.17 0.03 0.02 0.32 0.04 TR 38	0772 3598 6672 3013 3403 6185 0309 8115 8647 2 CHDRI	3 4 5 6 7 8 9 10 BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69 FREQUENCY 3.311 6.623 9.934 13.245 16.556
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1969403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIC ERO POSITION -0.2061463E 0.3799863E 0.5911396E -0.5890445E 0.1057681E 0.2566228E	04 03 03 02 03 02 01 02 03 01 VSED 04 03 03 02 03 02 03	0.1282229E 0.6624917E -0.4352473E 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 0.00EL CL8705 0.211173 1.25 8J 0.7993181E 0.5064359E 0.4358894E -0.3152168E -0.2353740E -0.3353740E	04 03 03 03 02 03 02 03 02 SHIF E 04 LUAI	0.1436 0.6859 0.4889 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197 0.8850 0.7784 0.4438 0.3324 0.2367	403E427986EED 417EED 417EED 417EE0 417EE0 417EE0 417EE0 417EE0	04 03 03 03 02 03 02 03 03 03 03 03 03 03 03	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587 97.627 288.551 276.222 2335.738	FLT	31.605 35.010 69.367 61.342 2.452 12.731 33.777 26.461 12.0 PSIJC 64.574 20.294 32.542 72.138 55.244	0.97 0.46 0.29 0.17 0.03 0.02 0.02 0.04 TR 38	0772 3598 6672 3013 3403 6185 0309 8115 8647	3 4 5 6 7 8 9 10 BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69 FREQUENCY 3.311 6.623 9.934 13.245 16.556
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.4780403E 0.1274403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIC ERO POSITION AJ -0.2061463E 0.3799863E 0.5911396E -0.589045E 0.1057661E 0.2366228E 0.7589674E 0.2295437E	04 03 03 02 03 02 01 02 03 01 VSIS M LOAD USED	0.1282229E 0.6624917E -0.4352473E 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 100EL CL8705 0.2211173 1.25 8J 0.7993181E 0.5064349E 0.4358894E -0.3152168E -0.2456245E	04 03 03 03 02 03 02 03 02 03 02 LUAI	0.1436 0.6859 0.4389 0.2559 0.4942 0.1275 0.305 0.4854 0.7197 33 0/IN US C 0.8850 0.7784 0.4438 0.3324 0.2367 0.8324	403E4627986ED 7 0 ED 417EE0 934E 934E0 984E0 9	04 03 03 03 02 03 02 03 02 17	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587 97.627 286.551 276.223 335.738 84.661	FLT	31.605 35.010 69.367 61.342 2.452 12.731 32.777 26.461 12.0 PSIJC 64.574 20.294 32.542 72.138 55.244 12.094	0.97 0.46 0.27 0.17 0.03 0.08 0.02 0.32 0.04	0772 3598 6672 3013 3403 6184 0309 8115 8647 2 CHORI 2 CHORI 2 CHORI 4 CHORI 4 CHORI 5681 7523 4063 7874	3 4 5 6 7 8 9 10 BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69 FREQUENCY 3.311 6.623 9.934 13.245 16.556 19.868 23.179
0.1062064E 0.6474116E -0.1779018E 0.5705859E 0.1530203E 0.1969400E 0.1274403E -0.4025212E -0.6762912E ARMONIC ANALY VERALL CYCLIC ERO POSITION -0.2061463E 0.3799863E 0.5890445E 0.1057641E 0.2566228E	04 03 02 03 02 01 02 03 01 02 03 01 USED 04 03 03 02 03 02 04 03 03 02 04 03 03	0.1282229E 0.6624917E -0.4352473E 0.1255295E 0.1275070E 0.2721440E -0.2714448E -0.7166156E 0.00EL CL8705 0.211173 1.25 8J 0.7993181E 0.5064359E 0.4358894E -0.3152168E -0.2353740E -0.3353740E	04 03 03 02 03 02 03 02 03 02 SHIS E 04 LUAI	0.1436 0.6859 0.4889 0.2559 0.4942 0.1275 0.3005 0.4854 0.7197 0.8850 0.7784 0.4438 0.3324 0.2367	403E4E77986E8E8E8E8E8E8E8E8E8E8E8E8E8E8E8E8E8E8E	04 03 03 03 02 03 02 03 03 03 03 03 03 03 03 03 03 03 03	63.210 105.031 277.469 306.708 14.713 89.115 64.907 213.994 264.609 CTR 9 16200.00 PHIJC 64.574 40.587 97.627 288.551 276.222 2335.738	FLT	31.605 35.010 69.367 61.342 2.452 12.731 33.777 26.461 12.0 PSIJC 64.574 20.294 32.542 72.138 55.244	0.97 0.46 0.27 0.17 0.03 0.08 0.02 0.32 0.04	0772 3598 6672 3013 3403 6185 0309 8115 8647 2 CHORI 2 CHORI 1564 1564 1568 17523 4063 77874	3 4 5 6 7 8 9 10 BEND	6.623 9.934 13.245 16.556 19.868 23.179 26.490 29.801 33.113 STA 69 FREQUENCY 3.311 6.623 9.934 13.245 16.556

Table III. (Continued)

TEST 12	H -	7			·					•									
HARMONIC OVERALL C						P 3:	3 T	017	CTR	10	FLT	12.0	TR	6	1 6	LAP	BEND	STA	43
ZERO POSI	TION	USED		9.52	LOA	0/IN (USED		-2650	0.00									
-0, 1258	J)			CJ		P	HIJC		PSIJC	_	CJ/C	LAML	ξ	J	F	REQUENCY
0.3610			0.82	32202E	03	0.37	3523	3E 04	. 1	2.843	3	12.843	1	1.00	0000)	L		3.311
-0.6839				60578É		0.15				3.31		121.655		0.41			2		6.623
0.2470	788E	03	0.21	13031E	03	0.32	51106	SE 03	4	0.537	7	13.512	- (0.08	7784	•	3		9.934
0.1687				59328E		0.39	39285	5E_03		4.629		16.157		0.10	6366	<u> </u>	4		13.245
-0.3398				42463E		0.64				8.015		47.603		17.			5		16.556
0.8276				87117E		0.144				5.117		9.186		0.03			6		19.868
-0.3644				14425E		_0.15				6.469		36.638		0.04					23.179
-0.2593				57661E		0.29				0.660		18.833		.00			8		26.490
0.8520				49805E		0.11				0.393		4.488		0.03			9		29.801
0.3727	OTTE	02	0.23	36588E	02	0.43	98897	re oz	3	2.085	<u> </u>	3.208		0.01	18/8		10		33.113
HARMONIC OVERALL C ZERO POSI	YCLIC	LOAI	D • 0		2E 04	P 3:			2610	10	FLT	12.0	TR	31	2 F	LAP	BEND	STA	43
A	73			BJ			CJ		Ρ	HIJC		PSIJC		SJE	KAML		J	F	REQUENCY
-0.1323																			
0.4973				22029E		0.50	1487	5E_04	35	2.642		352.642_		1.00					3.311
-0.9177				21382E		0.17				8.899		119.449		0.35			2		6.623
0.2951				37754E		0.40				3.870		14.623		0.08			3		9.934
0.2836				28459E		0.40				4.92		11.230		0.07			4		13.245
-0.4887				38579E		0.68				4.714		44.943		0.13			5		16.556
-0.9208				11624E		0.14		_		9.63		21.606		0.02			6		19.868
-0.1524				64909E		0.23				29.171		32.739		0.04					23.179_
0.8524				41504E		0.95				3.010		41.626		0.01		-	8		26.490
0.1377 0.4291				75932E 92252E		0.14				6.904 6.64		37.434 3.664		0.02			10		29.801 33.113
HAR MONTO	ANAL V			C1 0705									**	•••			O.C.N.O.		
						Р 3:	3 T	017	CTR	10	FLT	12.0	TR	11	3 F	LAP	BEND	STA	43
OVERALL_C	YCLIC	LOA	0 = 0		5E 04	P 3:			CTR -3050		FLT	12.0	TR	11	3 F	FLAP	BEND	STA	43
OVERALL C	ITION :	USED	0 = 0	.63423	5E 04				-3050			12.0 PSIJC		11			BEND		+3
OVERALL C	TION	LOA! USED	0 = _0	•63423 8•27	SE 04 LOA		CJ		-3050 P	0.00					JMAX	<u> </u>			
OVERALL C ZERO POSI A -0.1301	1146E 1146E 1710N	LOAI USED 05 04	D = _0 -0.10	.63423 8.27 8J	5E 04 LCA	C/IN (USED CJ 95285	5E_04	-3050 P	O.00	:	PSIJC	(-J/C	KAML	· · · · · · · · · · · · · · · · · · ·			REQUETCY
ZERO POSI -0.1301 0.5094 -0.1654 0.2522	TION 1146E 164E 490E	USED 05 04 03 03	-0.10 -0.16	.63423 8.27 8J 70033E	D3 04	C/IN (USED CJ 95285	SE 04	-3050 P	0.00 HIJC	<u></u>	PSIJC 358.797		.J/C	JMAX 0000	· · · · · · · · · · · · · · · · · · ·	J		REQUEVCY
OVERALL C ZERO POSI -0.1301 0.5094 -0.1654	TION 1146E 164E 490E	USED 05 04 03 03	-0.10 -0.16 0.34	.63423 8.27 8J 70033E 00548E	03 04 03	0.504 0.160	USED CJ 95285 99076	5E 04 5E 04	-3050 P -35 26	0.00 PHIJC 68.791	7	PSIJC 358.797 132.049		.J/C	JMAX 0000 5791 3738) /	1 2		3.311 6.623 9.934
OVERALL C ZERO POSI -0.1301 0.5094 -0.1654 0.2522 0.1768 -0.3325	1710N 1146E 164E 490E 854E 8275E	USED 05 04 03 03 03 03	-0.10 -0.16 0.34 0.40	63423 8.27 8J 70033E 00548E 40940E	03 04 03 04 03	0.504 0.160 0.420	USED CJ 95285 99076 66714	SE 04 SE 04 SE 03	-3050 P 35 26 5	0.00 HIJC 68.791 64.098 63.752 66.511	7 ; 3 ; 2 ;	PSIJC 358.797 132.049 17.917	(.J/C	JMAX 0000 5791 3738 7093	() ; ;	J 1 2 3		3.311 6.623
OVERALL C ZERO POSI -0. 1301 0. 5094 -0. 1654 0. 2522 0. 1768 -0. 3325 0. 2641	146E 164E 164E 164E 1675E 1676E	USED 05 04 03 03 03 03 03	-0.10 -0.16 0.34 0.40 -0.64	8.27 8.27 8.3 70033E 00548E 40940E 70122E 56782E 52853E	03 04 03 03 03 03	0.50 0.16 0.42 0.44 0.72 0.12	USED CJ 95285 99076 66714 37644 52654	5E 04 5E 04 6E 03 6E 03 5E 03	-3050 P 	90.00 PHIJC 58.791 54.098 53.752 56.511 92.753	7	PSIJC 358.797 132.049 17.917 16.629 48.551 13.015		1.00 0.31 0.08	JMAX 0000 5791 3738 7093 2537) 7 3	1 2 3 4 5		3.311 6.623 9.934 13.245
OVERALL C ZERO POSI -0.1301 0.5094 -0.1654 0.2522 0.1768 -0.3325 0.2641 0.6055	146E 146E 164E 490E 1854E 1275E 1916E 1916E	USED 05 04 03 03 03 03 03 02 02	-0.10 -0.16 0.34 0.40 -0.64 0.12	8.27 8.3 70033E 00548E 40940E 70122E 56782E 52853E 79388E	03 04 03 03 03 03 03 03	0.504 0.160 0.420 0.443	USED CJ 95285 99076 66714 37644 52654	5E 04 5E 04 6E 03 6E 03 5E 03	-3050 P 	0.00 HIJC 68.791 64.098 63.752 66.511	7	PSIJC 358.797 132.049 17.917 16.629 48.551 13.015 42.756		.J/C 1.00 0.31 0.08 0.08	JMAX 0000 5791 3738 7093 2537 5129	() ; ; ;	J 1 2 3 4		3.311 6.623 9.934 13.245
OVERALL_C ZERO POSI -0.1301 -0.1654 -0.2522 0.1768 -0.3325 0.2641 0.6055 0.4763	1146E 146E 164E 164E 1676E 1676E 1676E 1698E 1688E	USED 05 04 03 03 03 03 02 02 02	-0.10 -0.16 0.36 0.40 -0.64 0.12 -0.10	.63423 8.27 8J 70033E 00546E 70122E 56782E 52853E 79388E 59310E	03 04 03 03 03 03 03 03	0.500 0.160 0.420 0.720 0.121 0.121	95285 95285 99076 66714 37644 52654 37670 29526	6E 04 6E 04 6E 03 6E 03 6E 03 6E 03	-3050 P 35 26 5 6 24 7 29	00.00 PHIJC 68.791 64.098 63.752 66.511 22.753 78.092 99.295 94.88	7 3 3 2 7 3 2	PSIJC 358.797 132.049 17.917 16.629 48.551 13.015 42.756 1.186		1.00 0.31 0.08 0.14 0.02 0.02	JMAX 0000 5791 3738 7093 2537 5129 4291 9478	7	1 2 3 4 5 6 7		3.311 6.623 9.934 13.245 16.556 19.868 23.179 26.490
OVERALL C ZERO POSI -0.1301 0.5094 -0.1654 0.2522 0.1768 -0.3325 0.2641 0.6055	146E 146E 146E 1490E 1854E 1275E 1916E 1918E 1487E	USED 05 04 03 03 03 03 02 02 02 02	-0.10 -0.16 0.34 0.40 -0.64 0.12 -0.10 0.79	8.27 8.3 70033E 00548E 40940E 70122E 56782E 52853E 79388E	03 04 03 03 03 03 03 01 01	0.500 0.160 0.420 0.720 0.121	95285 95285 99076 66714 37644 80405 37670 29526	6E 04 6E 04 6E 03 6E 03 6E 03 6E 03 6E 02 2E 02	-3050 P 35 26 5 6 24 7 29	00.00 PHIJC 68.791 64.098 63.752 66.511 72.753 78.092	7 3 3 2 7 3 8	PSIJC 358.797 132.049 17.917 16.629 48.551 13.015 42.756		1.00 0.31 0.08 0.08 0.14 0.02	JMAX 0000 5791 3738 7093 2537 5129 4291 9478 2773	7	1 2 3 4 5		3-311 6-623 9-934 13-245 16-556 19-868 23-179

Table III. (Continued)

TEST 12 N =	7	(CONTINUED)											*		•
HARMONIC ANAL		MODEL CL 8705	SHI	LP 3	12	T 0	17	CTR	10.5	17 1	2.0	TD AL	2 EI A	P REMO	STA 118
OVERALL CYCLI							• • 								
ZERO POSITION	USED	0.39	LO	AD/IN	USE	D		-14150	•00						
AJ -0.2317356E	04	8.1			CJ			PH.	IJC	PS	IJC	CJ/(XAML	J	FREQUENCY
0.1717480E		-0.1455695E	04	0.22	2513	96E	04	319	.716	319	.716	1.0	00000	1_	3.31
-0.2619929E	03	-0. 8656261E	02	0.27	1592	26E	03		· 284		. 142		22556	ž.	6.62
0.9673930E		0.3655381E		0.37					. 176		.059		67950	3	9.934
-0.7680544E		0.4261626E		0.43					<u> 217</u>		• 0 <u>5 4</u>		92338		13,24
0.3692654E		0.23697746		0.43					- 690		.538		94886	5	16.556
0.1389021E 0.7431802E		-0.7424973E 0.7106851E		0.79					• 596 • 720		.766 .246		33552 45674 _	7	19.868 23.179
-0.1121477E		0.1108651E		-0.8					• 720	,,,	• 2 4 4	0.0	36002	- :	26.490
0.9043372E		0.5041145E		0.50					897		989		22391	š	29.80
-0.3943468E		-0.1585050E		0.4					897		.190		18878	10	33.113
								-			•			•	•
ARMONIC ANAL					3	T 0	17	CTR	10 F	LT L	 2.0	TR 34	2 CH0	RD BEND	STA 21.
VERALL CYCLI															
ERO POSITION	USED		LOA	VD/IN	USE	D	•	-20600	•00						
LA		81			CJ			PH	JC	PS	UC	C1/C	JMAX		FREQUENCY
0.1042323E															
0.8437637E		0.1064344E		_ 0.13					594_		594		1882		3,311
0. 2391656E		0.1380082E		0.27					987		993		00000	2	6.623
-0.6612852E		0.88393898		0.66					234		745		39507	. 3	9.934
0.4942263E		-0.83628b3E		0.97					582		146		51798		13.245
0.4345670E		-0.3211614E -0.9617056E		0.32					. 706 . 573		541		17369	5	16.556
0.1260905E		0.1137744E		0.11					676		262 954		35829 61456	6 7	19.866 23.179
-0.4450206E		-0.3091634E		0.54					788		849		19624	- 8	26.490
-0.1173201E		-0.2647856E		0.28					103		345		34884	ÿ	29.801
0.1767035E		-0.1486567E		0.23					927		993		08363	10	33.113
ARMONIC ANALY					3 1	T 01	17	CTR	10 F	LT 12	2.0	TR 38	S CH01	RU BENC	STA 69
VERA <u>ll Cyc</u> lio Ero position		-		0/IN	USE	n		16200	.00						
AJ		BJ			CJ				IJC	PS	JC	C J/C	XAML		FREQUENCY
-0.1888360E											-			_	
0.2+35611E	03	0.9348105E	_03						396_			0.5	36969	1	3.311
Q. 1544743E	04	0.5677549E	03	0.16					180		090		00000	2	6.623
-0.4630442E		0+1071136E		0.47					975		658		88783	3	9.934
0.3950300E		-0.6376553E		0.7					779		445		55776	<u> </u>	13.245
-0.8941426E		-0.2980908E		0.29					282		656		1206	5	16.556
0.9307123E -0.2293056E		-0.2636729E		0.96					182		364		58777 52390	6	19.866
-ve 4473U30E		-0.14711516		0.86					993		749		2570 <u> </u>		23.179
-0-42271565				U. 74	471	436	U L	4010	,773	660		U.U(JE 31 U	8	26.490
-0.4227156E							Λ2	221	. 044	74	545	0.20	24101	۵	20 001
-0.4227156E -0.2594478E -0.6361436E	03	-0.2262056E -0.1215589E	03	0.34	421	22E			084		565 700		19149 73962	10 3	29.801 33.113

Table III. (Continued)

								
TEST 12 N = 8								<u> </u>
HARMONIC AMALYSIS OVERALL CYCLIC LO		SHIP 33 T 6				TR 6 1	FLAP BEND	STA 43
ZERO POSITION USEC	9.52	LOAD/IN USED	-	26500.00				•
AJ -0.1080868E 05	9.1	CJ		PHIJC	PSIJC	CJ/CJMA.	K J	FREQUENCY
-0.2457417E 04	0-1026628E 04	0.2663242	E 04	157.326	_157.326	1.00000	1	3.268
-0.1095151E 04	-0.1662755E 0	0.1108003	E O 4	188.735	94.368	0.41603	5 2	6,536
0.1302103E 03	0.4060793E 0	0.4264446	E 03	72.221	24.074	0.16012		9.804
-0.3731216E 02	0.3484736E 0			96.112	24.028	0.13159		13.072
-0.3035122E 03	-0.5180610E 0			239.636	47.927	0.22544		16.340
0.5390201E 02	0.4035307E 0.			36.820	6.137	0.02528		19.608
0 <u>.47582</u> 35E_02_	0.1601733E_0			286.545	40.935_	0.06274		22.876
0.9494292E 02	-0.2533246E 0			345.060	43.133	0.03689		26.144
0.9197168E 02	0.4904405E 0			3.052	0.339	0.03458		29.412
0.2936523E 01	0.4538205E 0	0.4547696	E 02	86.298	8.630	0.01707	6 10	32.680
OVERALL CYCLIC LOGICERO POSITION USE		LOAD/IN USED		26100.00 PHIJC	PSIJC	CJ/CJHA	x	FREQUENCY
-0.1174515E 05	DJ	CJ		PHISC	P313C	CS/ CSNA	• •	PREGUETCI
-0.4267283E 03	0.4462247E_0	0.4290549	E 03	174.030	174.030	0.31084	l1_	3,268
-0.1354839E O4	-0.2639009E 0			191.022	95.511	1.00000	-	6.536
0.2318039E 03	0.4837190E 0	3 0.5363926	E 03	64.396	21.465	0.38860	5 3	9.804
0.1714400E 03	0.1471176E 0.			40.634	10.158	0.16366	7 4	13.072
0.1714400E 03 -0.3762461E 03	0.1471176E 0: -0.2914075E 0:	0.4758984	E 03	40.634 217.758	10.158 43.552	0.16366	7 4	16.340
0.1714406E 03 -0.3762461E 03 0.7852191E 02	0.1471176E 0: -0.2914075E 0: -0.5768576E 0:	0.4758984	E 03	40.634 217.758 323.697	10.158 43.552 53.950	0.16366 0.34477 0.07058	7 4 9 5 9 6	16.340 19.608
0.1714400E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02	0.1471176E 0 -0.2914075E 0 -0.5768576E 0 -0.2089564E 0	0.4758984 0.9743373 0.2163287	E 03 E 02 E 03	40.634 217.758 323.697 254.999	10.158 43.552 53.950 36.428	0.16366 0.34477 0.07058 0.15672	7 4 9 5 9 6 6 7	16.340 19.608 22.876
0.1714400E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02	0.1471176E 0. -0.2914075E 0. -0.5768576E 0. -0.2089564E 0. -0.6645279E 0.	0.4758984 2 0.9743373 3 0.2163287 2 0.1006031	E 03 E 02 E 03 E 03	40.634 217.758 323.697 254.999 318.658	10.158 43.552 53.950 36.428 39.832	0.16366 0.34477 0.07058 0.15672 0.07288	7 4 9 5 9 6 6 7 5 8	16.340 19.608 22.876 26.144
0.1714400E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02 0.6337662E 02	0.1471176E 0. -0.2914075E 0. -0.5768576E 0. -0.2089564E 0. -0.6645279E 0. -0.7240430E 0.	0.4758984 0.9743373 0.2163287 2 0.1006031 0.9622356	E 03 E 02 E 03 E 03 E 02	40.634 217.758 323.697 254.999 318.658 311.196	10.158 43.552 53.950 36.428 39.832 34.577	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971	7 4 9 5 9 6 6 7 5 8 2 9	16.340 19.608 22.876 26.144 29.412
0.1714400E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02	0.1471176E 0. -0.2914075E 0. -0.5768576E 0. -0.2089564E 0. -0.6645279E 0.	0.4758984 0.9743373 0.2163287 2 0.1006031 0.9622356	E 03 E 02 E 03 E 03 E 02	40.634 217.758 323.697 254.999 318.658	10.158 43.552 53.950 36.428 39.832	0.16366 0.34477 0.07058 0.15672 0.07288	7 4 9 5 9 6 6 7 5 8 2 9	16.340 19.608 22.876 26.144
0.1714400E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02 0.6337662E 02	0.1471176E 0 -0.2916075E 0 -0.5768576E 0 -0.2089564E 0 -0.6645279E 0 -0.7240430E 0 0.7135796E 0 MODEL CL870S	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661	10.158 43.552 53.950 36.428 39.832 34.577 4.766	0.16366 0.34477 0.07058 0.15672 0.07288 0.06994	7 4 9 5 9 6 6 7 5 8 2 9 0 10	16.340 19.608 22.876 26.164 29.412 32.680
0.1714400E 03 -0.3762401E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02 0.6337602E 02 0.6502017E 02	0.1471176E 0 -0.2916075E 0 -0.5768576E 0 -0.2089564E 0 -0.6645279E 0 -0.7240430E 0 0.7135796E 0 MODEL CL870S	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661	10.158 43.552 53.950 36.428 39.832 34.577 4.766	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994	7 49 59 59 66 7 75 82 90 10	16.340 19.608 22.876 26.164 29.412 32.680
0.1714406E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02 0.6337662E 02 0.6502017E 02 MARMONIC ANALYSIS OVERALL_CYCLIC LOW	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL8705	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T (04 LUAD/IN USED	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F	10.158 43.552 53.950 36.428 39.832 34.577 4.766	0.16366 0.34477 0.07058 0.15672 0.07288 0.06994	7 49 59 59 66 7 75 82 90 10	16.340 19.608 22.876 26.164 29.412 32.680
0.1714406E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.7553157E 02 0.6337662E 02 0.6502017E 02	0.1471176E 0 -0.2916075E 0 -0.5768576E 0 -0.2089564E 0 -0.6645279E 0 -0.7240430E 0 0.7135796E 0 MODEL CLB705 D = 0.175859E	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T 0 CJ	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F	10.158 43.552 53.950 36.428 39.832 34.577 4.766	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994	7 49 59 59 66 77 5 82 90 10	16.340 19.608 22.876 26.144 29.412 32.680
0.1714406E 03 -0.3762401E 03 -0.5762191E 02 -0.5599425E 02 0.7553157E 02 0.6337662E 02 0.6502017E 02 MARHONIC ANALYSIS VERALL_CYCLIC LOVERALL_CYCLIC LOVERALL_CYCLIC LOVERALL_CYCLIC LOVERALL_CYCLIC LOVERALL_CYCLIC LOVERALL	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL8705	0.4758984 0.9743373 0.9243373 0.1036937 0.1006031 0.9622356 0.9653796 SHIP 33 T (04 LUAD/IN USED	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F	10.158 43.552 53.950 36.428 39.832 34.577 4.766	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994	7 49 59 59 66 77 5 8 2 9 0 10	16.340 19.608 22.876 26.144 29.412 32.680
0.171440eE 03 -0.3762401E 03 0.7652191E 02 -0.5599425E 02 0.7553157E 02 0.6337662E 02 0.6502017E 02 MARMONIC ANALYSIS VERALL CYCLIC LOV ERO POSITION USED -0.1131262E 05 -0.2500479E 03	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL870S AD = 0.175859E 8.27 8J -0.6155225E 0.	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T (04 LUAD/IN USED CJ 0.66643733 0.1110373(E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 FI 30500.00	10.158 43.552 53.950 36.428 39.832 34.577 4.766	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994	7 4 9 5 9 6 6 7 5 8 2 9 0 10	16.340 19.608 22.876 26.144 29.412 32.680
0.171440eE 03 -0.3762401E 03 0.7852191E 02 -0.5599425E 02 0.6337662E 02 0.6502017E 02 MARHONIC ANALYSIS VERALL_CYCLIC LOW ERO POSITION USES -0.2131262E 05 -0.2502479E 03 -0.8680316E 03	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL8705 D = 0.179859E 8.27 8J -0.6155225E 00.6916704E 0.	0.4758984 0.9743373 0.2163287 0.1036031 0.09622356 0.9653796 SHIP 33 T (CJ CJ 0.666437331 0.1110373	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F	10.158 43.552 53.950 36.428 39.832 34.577 4.766 LT 12.0 PSIJC 247.891 109.265	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994	7 4 9 5 9 6 6 7 5 8 2 9 0 10	16.340 19.608 22.876 26.144 29.412 32.680 STA 43
0.171440eE 03 -0.3762401E 03 -0.5762191E 02 -0.5599425E 02 0.6537662E 02 0.66337662E 02 0.6502017E 02 MARMONIC ANALYSIS VERALL_CYCLIC LOW ERO POSITION USEI -0.1131262E 05 -0.2500479E 03 -0.8680316E 03 0.3517983E 03	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL8705 D = 0.175859E 0 8.27 8J -0.6155225E 00.6916704E 0.	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T 0 LUAD/IN USED CJ 0.666437331 0.1110373 0.5675884 0.28615991	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F	10.158 43.552 53.950 36.428 39.832 34.577 4.766 LT 12.0 PSIJC 247.891 109.205 17.233	0.16366 0.34477 0.07058 0.15672 0.06971 0.06994 TR 11 3	7 49 59 59 66 75 82 90 10 10 10 10 10 10 10 10 10 10 10 10 10	16.340 19.608 22.876 26.144 29.412 32.680 STA 43
0.171440eE 03 -0.3762401E 03 -0.3762401E 02 -0.5599425E 02 0.7553157E 02 0.6337602E 02 0.6502017E 02 MARMONIC ANALYSIS VERALL_CYCLIC LOW ERO POSITION USES -0.1131262E 05 -0.2500479E 03 -0.8680316E 03 0.8261772E 02	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL8705 AD = 0.175859E 8.27 8J -0.6155225E 00.6916704E 0. 0.47534741E 0.	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T 0 LUAD/IN USED CJ 0.6643733 0.1110373 0.2661599 0.2861599	E 03 E 03 E 03 E 02 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F 30500.00 PHIJC 247.891 218.529 51.698 73.219	10.158 43.552 53.950 36.428 39.832 34.577 4.766 LT 12.0 PSIJC 247.891 109.205 17.233 16.305	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994 TR 11 3	7 4 9 5 9 6 6 7 5 8 2 9 0 10	16.340 19.608 22.876 26.144 29.412 32.680 STA 43 FREQUENCY 3.268 6.536 9.804 13.072
0.171440e 03 -0.3762401E 03 -0.3762401E 03 -0.7652191E 02 -0.5599425E 02 0.6337662E 02 0.6502017E 02 MARMONIC ANALYSIS ERO POSITION USE ERO POSITION USE -0.1131262E 05 -0.2500479E 03 -0.4680310E 03 0.3517963E 03 0.8261772E 02 -0.377399-E 03	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL870S AD = 0.175859E 8.27 8J -0.6155225E 00.6916704E 0. 0.2739741E 00.4421047E 0.	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T (04 LUAD/IN USED CJ 0.6643733 0.1110373 0.5012603 0.5012603 0.1741118	E 03 E 02 E 03 E 03 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F 30500.00 PHIJC 247.891 218.529 51.698 73.219 229.514	10.158 43.552 53.950 36.428 39.832 34.577 4.766 LT 12.0 PSIJC 247.891 109.205 17.233 18.305 45.903	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.00994 TR 11 3	7 4 9 5 9 6 6 7 5 8 2 9 0 10	16.340 19.608 22.876 26.144 29.412 32.680 STA 43 FREQUENCY 3.268 6.536 9.804 13.072 16.340
0.1714406E 03 -0.3762461E 03 0.7852191E 02 -0.5599425E 02 0.6337662E 02 0.6337662E 02 0.6502017E 02 MARMONIC ANALYSIS OVERALL_CYCLIC LOW LERO POSITION USES -0.2131262E 05 -0.2500479E 03 -0.4680316E 03 0.3517963E 03 0.8061772E 02 -0.377399-E 03 0.160235-E 03	0.1471176E 00.2914075E 00.5768576E 00.2089564E 00.6645279E 00.7240430E 0. 0.7135796E 0. MODEL CL8705 D = 0.179859E 8.27 8J -0.6155225E 00.6916704E 0. 0.2739741E 00.4451047E 00.4421047E 0.	0.4758984 0.9743373 0.2163287 0.1036031 0.206031 0.9652356 0.9653796 SHIP 33 T (CJ CJ 0.66643733 0.1110373 0.5675884 0.28615991 0.5124031 0.17411181 0.21764801	E 03 E 02 E 03 E 02 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F 30500.00 PHIJC 247.891 218.529 51.698 73.219 229.514 336.970	10.158 43.552 53.950 36.428 39.832 34.577 4.766 LT 12.0 PSIJC 247.891 109.205 17.233 18.305 45.903 56.162	0.16366 0.34477 0.07058 0.15672 0.06971 0.06994 TR 11 3	7 4 9 5 9 5 9 6 6 7 7 5 8 2 9 9 0 10 10 10 10 10 10 10 10 10 10 10 10 1	16.340 19.608 22.876 26.144 29.412 32.680 STA 43 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608
0.1714406E 03 -0.3762461E 03 -0.3762461E 02 -0.5599425E 02 -0.5599425E 02 0.6337662E 02 0.6337662E 02 0.6502017E 02 MARMONIC ANALYSIS OVERALL_CYCLIC LOV LERO POSITION USES -0.2503479E 03 -0.4686316E 03 0.3517983E 03 0.3517983E 03 0.8261772E 02 -0.377399-E 03 0.160235-E 03 0.5861479E 02	0.1471176E 0 -0.2916075E 0 -0.2916075E 0 -0.5768576E 0 -0.2089564E 0 -0.6645279E 0 -0.7240430E 0 0.7135796E 0 MODEL CLB705 D = 0.175859E 8.27 8J -0.6155225E 0 -0.691670+E 0 0.2739741E 0 -0.4421047E 0 -0.6811430E 0 -0.2096067E 0	0.4758984 0.9743373 0.2163287 0.1006031 0.9622356 0.9653796 SHIP 33 T 0 LUAD/IN USED CJ 0.6643733 0.1110373 0.5675884 0.2661599 0.2164801 0.21764801	E 03 E 02 E 03 E 03 E 02 E 02 E 02	40.634 217.758 323.697 254.999 318.658 311.196 47.661 CTR 11 F 30500.00 PHIJC 247.891 218.529 51.698 73.219 229.514 336.970 285.623	10.158 43.552 53.950 36.428 39.832 34.577 4.766 LT 12.0 PSIJC 247.891 109.265 17.233 18.305 45.903 40.803	0.16366 0.34477 0.07058 0.15672 0.07288 0.06971 0.06994 TR 11 3 CJ/CJMA: 0.59433 1.000000 0.51116 0.25771: 0.523500 0.15680 0.19601	7 49 59 59 66 75 82 90 10 10 10 10 10 10 10 10 10 10 10 10 10	16.340 19.608 22.876 26.144 29.412 32.680 STA 43 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608 22.876

Table III. (Continued)

TEST 12	N =	3	(CONT	 NUED)						···· 										
HARMONIC	ANAL	Y515	MODEL (CL8705	SH	10	33	T 01	7	CTR	11	FLT	12.0	TR	41	2	FLAP	BEND	STA	118
VERALL C	CACFI	C LOA	7D = .04	. 18445	1E 04	·					·· ·						· ·			
ERO POSI	ITION	USED) (0.39	LO	AD/IN	USE	D	•	-1415	0.00									
-0.2144	AJ 4342E	04		BJ			CJ				HIJC		PSIJC		CJ/C			J	F	REQUESCY
0.8289				92947E			6209			30	0.75	b;	300.756		1.00	0000	0	1_		3.268
~0. 2523				29368E			1848			11	9. 12:	3	59.561		0.31	986	9	2		6.536
0.1586				94040E			1807				3. 244		14.415		0.13			3		9.804
-0.5554				12758E			1102				9.97		59.995		0.06			4		13.072
0.2407 -0.3271				54357E 11371E			2303				1.829		8.366 18.969		0.19			5		16.340
0.2911				11371E 54480E			0027				3- 810		9.810		0.04			6 7		19.608 22.876
-0.1683				26920E			7917				7.09		15.886		0.01			8		26.144
-0. 2363				24515E			6432				4.75		12.751		0.03			Ğ		29.412
-0.3563				1996 BE			7446				2.11		16.212		0.02			10		32,680
HARMONIC OVERALL C							33	T OL	 7	CTR	11	FLT	12.0	TR	34	2 (CHOR	D BENC	STA	21.
ZERO POSI				3.12		AD/IN	USE	D		-2060	0.00									
A	1J			BJ			CJ			P	HI JC		PSIJC		CJ/C	JMA	K	J	F	REQUENCY
0.1025													,							
0.1146				61475E		0.1	6321	33E_	04	<u>+</u>	5, 366	3	45.368					1		3.26B
-0.9571				11982E			0339				7.769		78.885		0.63			2		6.536
-0.2617				01019E			7494				2 • 209		54-070		0.16			3		9.804
0.2920			-0.380				8140				4.39		68.598		0.23			5		13.072
0-1202				75197E 26833E			9031				9.183 8.560		61.837 4.760		0.11 0.05			6		16.340
0. 7949 -0. 9579				20033E 75420E			.5951				6.91		18.130		0.09			7		22.876
-0. 4602				33887E			6078				1.380		30.172		0.05			B		26.144
-0. 1932			-0.164				9391				4.87		20.541		0.11			9		29.412
0.5299			-0.10				4074				8.55		34.855		0.03			10		32.680
MARMONIC								T 01	7	CTR	iı	FLT	12.0	TR	38	2 (CHOR	D BEND	STA	69
DVERALL C													·			——				
ZERO POSI		OZED		1.25		AD/IN				1620										
-0.240S				BJ			CJ			P	HIJC		PSIJC	1	CJ/C	JMA	K	٦	F	REQUENCY
-0.2695			0.70	***	03		1501	316	^ 2	•	0 25	,	50 317		. ^^	000				3 3/0
-0.3608				71171E			1273 0649				2.592		59.317 76.296		1.00 0.44			<u>l</u>		3.268_ 6.536
-0.2266				35970E			4015				0.703		53.568		0.26			3		9.804
			-0.25				5757				9.76		64.942		0.28			4		13,072
-0.4576				36636			7269				7.51		57.503		0.18			5		16.340
-0.4576 0.5196								22E			7.911		1.318		0.06			6		19.608
0.5196 0.6112		02	U. 577	93095E																
0.5196	2299E			93095E 93711E			0071	52E	03_	13	7.543	3	19.049	1	0.11	6516	<u>) </u>			22•8 76_
0.5196 0.6112 -0.7873 -0.8608	299E 1242E 3653E	02	0.720 0.279	03711E 95934E	05	_ 0. 1				19	7.993	3	19.649 24.749	1	0.11 0.09			8		22+8 <u>7</u> 6_ 26 - 144
0.5196 0.6112 -0.7873	2299E 1242E 1653E 1543E	02 02 03	0.720 0.279	93711E 95934E 44687E	05 05 05	_ 0.1 0.9 0.2	0071	39E	02 03	19 17		} }		1		8821	L B			

Table III. (Continued)

MARMONIC ANALYSIS OVERALL CYCLIC LOX ZERO POSITION USEC AJ -0.1277989E 05 0.2280115E 04 -0.2003283E 04 0.1760037E 03 0.1733412E 03 -0.3367371E 02 0.707717404E 02 0.1004390E 03 0.1762656E 03 0.5485622E 02 MARMONIC ANALYSIS GVERALL CYCLIC LOX ZERO POSITION USEC AJ -0.1371314E 05 0.2503684E 04 -0.1402430E 03 0.8119933E 02 -0.2961677E 03 0.9899142E 02 0.7210352E 02 0.7210352E 02 0.7288899E 02 0.1611875E 03	AC = 0.649752 BJ -0.4169859E -0.85278>06 0.4337322E 0.1909523E -0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.627792 D 3.75 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E	04	0/IN USED CJ 0.475253 0.217724 0.468082 0.257895 0.744451 0.103786 0.103986 0.179407 0.103031	9E 04- 2E 04- 0E 03- 37E 03- 7E 03- 3F	-26500.00 PHIJC 298.670 203.059 67.913 47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	PSIJC 298.670 101.530 22.638 11.942 47.646 17.979 31.820 1.876 1.189 5.884	0.458122 0.098491 0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310	1 2 3 4 5 6 7 7 8 9 10	FREQUENCY 3, 257 6, 515 9, 772 13, 029 16, 287 19, 544 22, 801 26, 059 29, 316 32, 573 STA 43 FREQUENCY 3, 257
OVERALL CYCLIC LOS ZERO POSITION USES AJ -0.1277889E 05 0.2280115E 04 -0.2003283E 04 0.1760037E 03 -0.3919692E 03 -0.3919692E 03 -0.37171404E 02 0.1004390E 03 0.1762656E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOS ZERO POSITION USES AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.989142E 03 0.7210352E 02 0.7210352E 02	AC = 0.649752 BJ -0.4169859E -0.85278>06 0.4337322E 0.1909523E -0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.627792 D 3.75 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E	04 LOA 04 03 03 03 03 02 02 02 02 02 02 04 04 04 03 03 03	0/IN USED CJ 0.475253 0.217724 0.468082 0.257895 0.744451 0.103786 0.103986 0.179407 0.103031	9E 04- 2E 04- 0E 03- 37E 03- 7E 03- 3F	-26500.00 PHIJC 298.670 203.059 67.913 47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	PSIJC 298.670 101.530 22.638 11.942 47.646 17.979 31.820 1.876 1.189 5.884	CJ/CJMAX 1.000000 0.458122 0.098491 0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	1 2 3 4 5 6 7 7 8 9 10	FREQUENCY 3, 257 6, 515 9, 772 13, 029 16, 287 19, 544 22, 801 26, 059 29, 316 32, 573 STA 43 FREQUENCY 3, 257
AJ -0.1277989E 05 0.2280115E 04 -0.2003283E 04 0.1760037E 03 0.1733412E 03 -0.3919692E 03 -0.3367371E 02 -0.7717404E 02 0.1004390E 03 0.1762656E 03 0.5485622E 02 MARMONIC ANALYSIS GVERALL CYCLIC LOI ZERO POSITION USEI AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7210352E 02	BJ -0.4169859E -0.85478>0E -0.4337322E 0.1909523E -0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.62779 D 3.75 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E	04 03 03 03 03 02 02 02 02 02 02 04 LOA	CJ 0.475253 0.217724 0.468082 0.257895 0.744451 0.109720 0.105074 0.103986 0.179407 0.106031 P 33 T D/IN USED CJ 0.564491 0.205146	9E 04 2E 04 0E 03 3F 03 7E 03 4E 03 3E 03 3E 03 7E 03 3E 03	298.670 293.059 67.913 47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	298.670 101.530 22.636 11.942 47.646 17.979 31.820 1.870 1.189 5.884	1.000000 0.458122 0.098491 0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	1 2 3 4 5 6 6 7 8 9 10	3, 257 6, 515 9, 772 13, 029 16, 287 19, 544 22, 801 26, 059 29, 316 32, 573 STA 43
-0.1277989E 05 0.2280115E 04 -0.2003283E 04 0.1760037E 03 0.1733412E 03 -0.3919692E 03 -0.3367371E 02 -0.7717404E 02 0.1004390E 03 0.1762556E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOCAL	-0.4169859E -0.8527850E -0.8527850E 0.4337322E 0.1909523E -0.6329048E 0.1044253E 0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.62779 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E	03 03 03 03 03 02 02 02 02 02 02 04 LOA	0.475253 0.217724 0.468082 0.257895 0.744451 0.109720 0.105074 0.103986 0.179407 0.106031 P 33 T	2E 04 0E 03 3E 03 7E 03 7E 03 4E 03 9E 03 3E 03 7E 03 3E 03	298.670 203.059 67.913 47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	298.670 101.530 22.636 11.942 47.646 17.979 31.820 1.870 1.189 5.884	1.000000 0.458122 0.098491 0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	1 2 3 4 5 6 6 7 8 9 10	3, 257 6, 515 9, 772 13, 029 16, 287 19, 544 22, 801 26, 059 29, 316 32, 573 STA 43
0.2280115E 04 -0.200323E 04 -0.200323E 03 -0.3760037E 03 -0.3719092E 03 -0.3367371E 02 -0.7717404E 02 -0.1004390E 03 -0.1762556E 03 -0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LO. ZERO POSITION USE(A.) -0.1371314E 05 -0.2503684E 04 -0.1453683E 04 -0.1402430E 03 -0.8119933E 02 -0.2961677E 03 -0.9899142E 02 -7210352E 02 -7210352E 02 -7210352E 02	-0.85278>0E 0.4337322E 0.1909523E -0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.627792 D 3.75 BJ -0.5059313E 0.9137650E -0.3131743E 0.7626648E	03 03 03 03 03 02 02 02 02 02 02 04 LOA	0.217724 0.468082 0.257895 0.744451 0.109720 0.105074 0.103986 0.179407 0.106031 P 33 T	2E 04 0E 03 3E 03 7E 03 7E 03 4E 03 9E 03 3E 03 7E 03 3E 03	203.059 67.913 47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	101.530 22.638 11.942 47.646 17.979 31.820 1.870 1.189 5.884	0.458122 0.098491 0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310	3 4 5 6 7 8 9 10	6.515 9.772 13.029 16.287 19.544 22.801 26.059 29.316 32.573 STA 43
0.1760037E 03 0.1733412E 03 -0.3919992E 03 -0.3919992E 03 -0.3367371E 02 -0.7717404E 02 0.1004390E 03 0.1762556E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOG ZERO POSITION USEI AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.989142E 03 0.989142E 03 0.7210352E 02 0.7210352E 02 0.7210352E 02	-0.85278>0E 0.4337322E 0.1909523E -0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.627792 D 3.75 BJ -0.5059313E 0.9137650E -0.3131743E 0.7626648E	03 03 03 03 03 02 02 02 02 02 02 04 LOA	0.468082 0.257895 0.744551 0.103780 0.103986 0.179407 0.106031 P 33 T D/IN USED	0E 03 3E 03 7E 03 4E 03 9E 03 3E 03 7E 03 3E 03	67.913 47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	22.638 11.942 47.646 17.979 31.820 1.876 1.189 5.884	0.098491 0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	3 4 5 6 7 8 9 10	9.772 13.029 16.287 19.544 22.801 26.059 29.316 32.573 STA 43
0.1733412E 03 -0.3919692E 03 -0.3367371E 02 -0.7717404E 02 0.1004390E 03 0.1762656E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOV ZERO POSITION USES AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	0.1909523E -0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.627792 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	03 03 02 02 02 02 02 02 02 02 04 LOA	0.257895 0.744451 0.10974 0.105074 0.103986 0.179407 0.106031 P 33 T D/IN USED 0.564491 0.205146 0.924465	3E 03 7E 03 4E 03 9E 03 3E 03 7E 03 3E 03 7E 04 4E 04	47.768 238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	11.942 47.646 17.979 31.820 1.870 1.189 5.884	0.054265 0.156643 0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	4 5 6 7 8 9 10 P BEND	13.029 16.287 19.544 22.801 26.059 29.316 32.573 STA 43
-0.3919692E 03 -0.3367371E 02 -0.7717404E 02 0.1004390E 03 0.1762856E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LO ZERO POSITION USE AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.989142E 02 0.7210352E 02 0.7288899E 02	-0.6329048E 0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.62779 D 3.75 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	03 03 02 02 02 02 02 02 04 LOA	0.744451 0.109720 0.105074 0.103986 0.179407 0.106031 P 33 T D/IN USED CJ 0.564491 0.205146 0.924465	7E 03 4E 03 9E 03 3E 03 7E 03 3E 03 7E 07 3E 07 3E 07 3E 07	238.229 107.873 222.738 15.009 10.705 58.845 CTR 12	47.646 17.979 31.820 1.870 1.189 5.884	0.156643 0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	5 6 7 8 9 10	16.287 19.544 22.801 26.059 29.316 32.573 STA 43
-0.3367371E 02 -0.7717404E 02 0.1004390E 03 0.1762656E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LO ZERO POSITION USE AJ -0.137314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119938E 02 -0.2961677E 03 -0.2907561E 03 0.989142E 02 0.7210352E 02 0.72188899E 02	0.1044253E -0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.627793 BJ -0.5059313E -0.1447318E 0.9137656E -0.3131743E 0.7626648E	03 02 02 02 02 02 02 04 LOA	0.109720 0.1059740 0.103986 0.179407 0.106031 P 33 T D/IN USED CJ 0.566491 0.205146	4E 03 9E 03 33E 03 7E 03 3E 03 017	107.873 222.738 15.009 10.705 58.845 CTR 12 (17.979 31.820 1.870 1.189 5.884	0.023087 0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	6 7 8 9 10	19.544 22.801 26.059 29.316 32.573 STA 43
-0.7717404E 02 0.1004390E 03 0.1762556E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOG 2ERO POSITION USEI -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.9899142E 02 0.7210352E 02 0.7248899E 02	-0.7130847E 0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.62779 D 3.75 BJ -0.5059313E -0.1447318E 0.9137656E -0.3131743E 0.7626648E	02 02 02 02 02 SHI 3E 04 LOA	0.105074 0.103986 0.179407 0.106031 P 33 T D/IN USED CJ 0.564491 0.205146	9E 03 3E 03 7E 03 3E 03 017	222.738 15.009 10.705 58.845 CTR 12	31.820 1.870 1.189 5.884	0.022109 0.021880 0.037750 0.022310 TR 31 2 FLA	7 8 9 10 P BEND	22.801 26.059 29.316 32.573 STA 43
0.1004390E 03 0.1762656E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LO. ZERO POSITION USE AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.72488999E 02	0.2692859E 0.3332443E 0.9073828E MODEL CL8705 AD = 0.62779 D 3.75 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	02 02 02 02 SHI 3E 04 LOA 04 04 03 03	0.103986 0.179407 0.106031 P 33 T D/IN USED CJ 0.566491 0.205146 0.924465	3E 03 7E 03 3E 03 3E 03	15.009 10.705 58.845 CTR 12 26100.00 PHIJC 296.329	1.876 1.189 5.884 FLT 12.0	0.021880 0.037750 0.022310 TR 31 2 FLA	8 9 10 P BEND	26.059 29.316 32.573 STA 43 FREQUENCY 3.257
0.1762656E 03 0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOI ZERO POSITION USEI 0.1371314E 05 0.2503684E 04 0.1402430E 03 0.8119938E 02 0.2901677E 03 0.989142E 02 0.7210352E 02 0.72188899E 02	0.3332443E 0.9073828E MODEL CL8705 AD = 0.62779 D 3.75 BJ -0.5059313E 0.9137650E -0.3131743E 0.7626648E	02 02 SHI 3E 04 LOA 04 04 03 03	0.179407 0.106031 P 33 T D/IN USED CJ 0.566491 0.205146	7Ē 03 3Ē 03 017	10.705 58.845 CTR 12 2 26100.00 PHIJC 296.329	1.189 5.884 FLT 12.0	0.037750 0.022310 TR 31 2 FLA	9 10 P BEND	29.316 32.573 STA 43 FREQUENCY 3.257
0.5485622E 02 HARMONIC ANALYSIS GVERALL CYCLIC LOCA ZERO POSITION USE -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402<30E 03 0.8119933E 02 -0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	0.9073828E MODEL CL8705 AD = 0.627793 0.3075 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	02 SH1 3E 04 LOA 04 04 03 03	0.106031 P 33 T D/IN USED CJ 0.564491 0.205146	017 46 04 46 04	58.845 CTR 12 (26100.00 PHIJC 296.329	5.884 FLT 12.0	0.022310 TR 31 2 FLA CJ/CJMAX	P BEND	32.573 STA 43 FREQUENCY 3.257
HARMONIC ANALYSIS GVERALL CYCLIC LOV ZERO POSITION USE AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402*30E 03 0.8119933E 02 -0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	MODEL CL8705 AD = 0.627791 D 3.75 BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	SHI 3E 04 LOA 04 04 03 03	P 33 T O/IN USED CJ 0.564491 0.205146 0.924465	017 .4E_04	CTR 12 26100.00 PHIJC 296.329	FLT 12.0	TR 31 2 FLA	P BEND	STA 43 FREQUENCY 3.257
AJ -0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1462430E 03 0.8119933E 02 -0.2961677E 03 -0.2907561E 03 0.989142E 02 0.7210352E 02 0.7288899E 02	AD = 0.62779: BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	04 04 03 03	O-1N USED O-564491 O-205146 O-924465	.4E 04	26100.00 PHIJC 296.329	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7248899E 02	BJ -0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7620648E	04 04 03 03	CJ _0.564491 _0.205146 _0.924465	4E 04	PHIJC 296.329		,	<u> </u>	3,257
-0.1371314E 05 0.2503684E 04 -0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.2907761E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	-0.5059313E -0.1447318E 0.9137650E -0.3131743E 0.7626648E	04 03 03	_0.564491 0.205146 0.924465	4E 04	296.329		,	<u> </u>	3,257
0.2503684E 04 -0.1453683E 04 0.1402-30E 03 0.8119933E 02 -0.2961-077E 03 -0.2907-61E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	-0.1447318E 0.9137656E -0.3131743E 0.7626648E	04 03 03	0.205146 0.924465	4E 04		296.329	1.000000		
-0.1453683E 04 0.1402430E 03 0.8119933E 02 -0.2961677E 03 -0.2907561E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	-0.1447318E 0.9137656E -0.3131743E 0.7626648E	04 03 03	0.205146 0.924465	4E 04		270.327	1.000000		
0.1402-30E 03 0.8119933E 02 -0.2961677E 03 -0.2907561E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	0.9137656E -0.3131743E 0.7626648E	03 03	0.924465			112.435		2	6.515
0.8119933E 02 -0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	-0.3131743E	03			81.274	27.091	0.163770	3	9.772
-0.2961677E 03 -0.2907661E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02	0.7626648E		0.323529		284.535	71.134	0.057313		13.029
-0.2907961E 03 0.9899142E 02 0.7210352E 02 0.7288899E 02		02	0.305829		165.559		0.054178	5	16.287
0.7210352E 02 0.7288899E 02	-0.2261748E		0.368398		217.875	36.312	0.065262	6	19.544
0.7288899E 02	-0.2308135E		0.251145		293.213	41.888	0.044491	7	22.801
-	0.8797971E	02	0.113751	ZE 03	50.664		0.020151	8	26.059
0.1611875E 03	-0.2854047E	02	0.782774	5E 02	338.616	37.624	0.013667	9	29.316
	0.2344292E	01	0.161204	5E 03	0.833	0.083	0.028557	10	32.573
HARMONIC ANALYSIS OVERALL CYCLIC LOS							TR 11 3 FLA		STA 43
ZERO POSITION USE			D/IN USED		-30500.00		100 1000 4. 4. 444 1000 4.		
AJ -0.1298254E 05	BJ		C1		JUIHA	PSIJC	CJ/CJMAX	J	FREQUENCY
0.3946604E_04_	0.5465816E		_0.674184					1	3.257
-0.1408787E 04	-0.1285635E		0.190723					2	6.515
0.3599263E 03	0.3955557E		0.534800		47.700	15.900	0.079325	3	9.772
0.1783657E 03	0.2277698E		0.269314		51.938	12.985	0.042913	<u> </u>	13.029
~0.5397058E 03	-0.2537534E		0.596383		205.181	41.036	0.088460	5	16-287
0.4574219E 01 -0.1587417E 03	0.22725426		0.227300		88.847	14.808	0.033715	6 7	19.544
0.8115126E 01	0.4315245E		0.164502 0.108551		195.208	27.887	0.024400		22.801 26.059
~0.2659558E 02	N. 10074745		A. TAGDDY	JE U.S.	96 711				
0.7465603E 01	0.1082476E 0.3802126E	Λ>	0.463998		85.713 124.973	10.714 13.886	0.006882	9	29.316

Table III. (Continued)

							····		
TEST 12 # = 9	(CONTINUED)				• •				
HARMONIC ANALYSIS	MODEL CL8705	SHIP	33 T	017	CTR 12	FLT 12.0	TR 41 2 FLA	P BEND	STA 118
OVERALL CYCLIC LO								···· ··	
ZERO POSITION USE	D 0.39	LOADA	'IN USED		-14150.00				
AJ	81	·	CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.2256832E 04 0.1390990E 04	-0.2295500E	04 0	. 2684059)F 04	301,214	301.214	1.000000	1	3.257
-0.4482822E 03	U.2960466E	03	.5372156	E 03	146.559			2	6,515
0.2620#25E 03	0.1431529E). 2986294	Æ 03	28.644		0.111261	3	9.772
0.2113453E 03	0.2014773E		-2919929				0.108788	4	13.029
0.4107483E 03	0.1539004E		.4386357					5	16.287
-0.3300130E 01	0.2906879E		. 2925551					6 7	19.544
-0.5105440E_02 -0.4032869E_02	0.9947249E 0.6171695E).1118093).7372505						22,801_
-0.7039552E 02	0.3031934E		7665085				0.028558	ğ	26.059 29.316
-0.8622786E 02	-0. 1722449E		8793135					10	
MARHONIC ANALYSIS	MODEL CL8705	SHIP	33 T	017	CTR 12	FLT 12.0	TR 34 2 CHO	RD BEND) STA 21.
VERALL CYCLIC LO ERO POSITION USE			'IN USED		-20600.00				
							·		
AJ 0.1059950E 05	BJ		C1		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.9314365E 03	0.1070192E	06 0	. 1418761	F 04	48.965	48.965	1.000000	1	3.257
0.9323896E 03	-0.4440640E		. 1032736		334.533	167.267		2	6,515
-0.4708821E 03	0.9333245E		. 1045382				0.736828	3	9.172
0.7945854E 01	-0.7610503E	03 0	.7610918	E 03	270.598	67.650	0.536448	4	13.029
0.2575748E 02	-0.6612305E		.2659267				0.018744	5	16.287
-0.7991080E 02	-0.4097992E		.8580563				0.063299	6	19.544
-0.7480957E 02	0.5523361E		.9299042				0.065543	7	22,801
-0.561854ZE 02	0.68217338		.8837648				0.062291	8	26.059
-0.6565440E 02 0.8652571E 02	-0.2467727E 0.4807617E).2553571).9898491					9 10	29,316
0.0032377.00		<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	UZ UZ		2. 700	0.004164		32,573
IARMONIC ANALYSIS	MODEL CL8705 AD = 0.246366	SHIP	33 T	017	CTR L2	FLT 12.0	TR 38 2 CHO	RO BEND	STA 69
ERO POSITION USE	0 1.25	LOAD/	IN USED		16200.00				
	8,1		CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
AJ									
-0.2621394E 04	A 99189495	02 0	1020004	E 04	74 700	74 3 90	1 000000		
-0.2621394E 04 0.2771494E 03	0.9918948E		. 1029886				1.000000	;	3.257
-0.2621394E 04 0.2771494E 03 0.5935374E 03	-0.4723252E	03 0	.7585366	€ 03	321.488	160.744	0.736524	ż	6,515
-0.2621394E 04 0.2771494E 03 0.5935374E 03 -0.2831038E 03	-0.4723252E 0.6573694E	03 0	. 7585366 . 7157390	E 03	321.488 113.300	160.744 37.767	0.736524 0.694969		6,515 9,772
-0.2621394E 04 0.2771494E 03 0.5935374E 03	-0.4723252E	03 0 03 0 03 0	.7585366	E 03	321.488 113.300 265.100	160.744 37.767 66.275	0.736524	ž	6,515
-0.2621394E 04 0.2771494E 03 0.5935374E 03 -0.2831038E 03 -0.5202938E 02	-0.4723252E 0.6573694E -0.6069316E	03 0 03 0 03 0	.7585366 .7157390 .6091577	E 03 E 03 E 02	321.488 113.300 265.100 259.043	160.744 37.767 66.275 51.809	0.736524 0.694969 0.591480	2 3 4 5	6,515 9,772 13,029
-0.2621394E 04 0.2771494E 03 0.5935374E 03 -0.2631038E 03 -0.5202938E 02 -0.1612640E 02 -0.46085938E 02 -0.7734743E 02	-0.4723252E 0.6573694E -0.6069316E -0.8330713E 0.8190201E -0.1980032E	03 0 03 0 03 0 02 0 02 0	.7585366 .7157390 .6091577 .8485399 .1150920	E 03 E 03 E 03 E 02 E 03 E 02	321.488 113.300 265.100 259.043 134.633 194.359	160.744 37.767 66.275 51.809 22.439 27.766	0.736524 0.694969 0.591480 0.082392 0.111752 0.077525	2 3 4 5 6 7	6,515 9,772 13,029 16,287 19,544 22,801
-0.2621394E 04 0.2771494E 03 0.5935374E 03 -0.2631038E 03 -0.5202938E 02 -0.1612640E 02 -0.8085938E 02 -0.7734745E 02 -0.6070757E 02	-0.4723252E 0.6573694E -0.6069316E -0.8330713E 0.8190201E -0.1980032E 0.5441734E	03 0 03 0 03 0 02 0 02 0 02 0 02 0	.7585366 .7157390 .6091577 .8485399 .1150920 .7984154	E 03 E 03 E 02 E 03 E 02 E 02 E 02	321.488 113.300 265.100 259.043 134.633 194.359	160.744 37.767 66.275 51.809 22.439 27.766	0.736524 0.694969 0.591480 0.082392 0.111752 0.077525	3 4 5 6 7	6,515 9,772 13,029 16,287 19,544 22,801 26,059
-0.2621394E 04 0.2771494E 03 0.5935374E 03 -0.2631038E 03 -0.5202938E 02 -0.1612640E 02 -0.46085938E 02 -0.7734743E 02	-0.4723252E 0.6573694E -0.6069316E -0.8330713E 0.8190201E -0.1980032E	03 0 03 0 03 0 02 0 02 0 02 0 02 0 03 0	.7585366 .7157390 .6091577 .8485399 .1150920	E 03 E 03 E 02 E 03 E 02 E 02 E 02 E 03	321.488 113.300 265.100 259.043 134.633 194.359 138.127 229.643	160.744 37.767 66.275 51.809 22.439 27.766 17.266	0.736524 0.694969 0.591480 0.082392 0.111752 0.077525	2 3 4 5 6 7	6,515 9,772 13,029 16,287 19,544 22,801

Table III. (Continued)

ARRONIC ANALYSIS MODEL CL8705 SHIP 33 T 017 CTR 13 FLT 12.0 TR 6 1 FLAP BEND STA 43 OVERALL CYCLIC LOAD - 0.100753E 05 ZERG POSITION USED 9.92 LOAD/IN USED -20500.00 AJ BJ CJ PHILC PSIJC CJ/CJMAX J FREQUENCY -0.1407702E 05 -0.1407702E 05 -0.1407702E 05 -0.1407702E 05 -0.1407702E 05 -0.1207702E 05 -0.1207702E 05 -0.215061E 04 -0.8404102E 03 0.2311302E 04 201.491 100.747 10.247223 2 6.517 -0.215061E 04 -0.8404102E 03 0.2311302E 04 201.491 100.747 10.247223 2 6.517 -0.215061E 04 -0.8404102E 03 0.5553500E 03 56.676 16.692 0.065004 3 1.716 -0.2150701E 03 -0.670773E 03 0.5553500E 03 56.676 16.692 0.065004 3 9.777 -0.4376719F 03 -0.670773E 03 0.8116212E 03 221.491 -0.1434058E 03 0.3005479E 03 0.7107408E 03 67.7751 11.292 0.006032 5 1.600 -0.130061E 02 -0.2659599E 03 0.2638415E 03 221.497 -0.130061E 02 -0.265999E 03 0.2638415E 03 221.497 -0.130061E 02 -0.265999E 03 0.2638415E 03 221.497 -0.30270068E 02 0.2674262E 01 0.3000649E 02 5.065 -0.7386035E 02 0.8010760 02 0.86251995 02 33.163 3.667 0.009492 0.028227 7 22.601 -0.26024269E 01 0.1059099E 03 0.1059428E 03 88.571 8.657 0.011334 10 32.573 PARARONIC ANALYSIS MODEL CL8705 SHIP 33 T 017 CTR 13 FLT 12.0 TR 31 2 FLAP 8END STA 43 DVERALL CYCLIC LOAD - 0.108548E 05 -0.2519740E 04 - 0.802464E 03 0.264461E 04 197.668 98.813 0.261305 2 6.515 -0.2479864E 03 0.2587749E 03 0.3586155E 03 46.220 15.407 0.035520 3 9.772 -0.100070E 03 0.264461E 04 0.101900E 05 284.054 1.000000 1 3.2573 DVERALL CYCLIC LOAD - 0.008548E 03 0.264461E 04 197.668 98.813 0.261305 2 6.515 -0.2479864E 03 0.2587749E 03 0.3586155E 03 46.220 15.407 0.035520 3 9.772 -0.1010070E 03 0.264461E 04 0.101900E 05 284.054 1.4000000 1 3.2573 DVERALL CYCLIC LOAD - 0.008548E 03 0.264461E 04 197.668 98.813 0.261305 2 6.515 -0.2479864E 03 0.2587749E 03 0.3586155E 03 46.220 15.407 0.035520 3 9.772 -0.1010070E 03 0.2047430E 03 0.264616E 04 197.668 98.813 0.26106 0.26106 0 9.782 -0.1010070E 03 0.2047430E 03 0.246461E 04 197.668 98.813 0.26106 0 0.26106 0 0.26106 0 0.26106 0 0.26106 0 0.26106 0 0.26106 0 0.26106 0 0.26106 0										<u> </u>							
DERO POSITION USED 9.52 LOAD/IN USED -26500.00 AJ AJ STORY REPORTS OF 9.52 LOAD/IN USED -26500.00 -0.1407782E 05 -0.9204328E 04	TEST 12 N =	10														_	
AJ 8J CJ PHIJC PSIJC CJ/CJMAX J FREQUENCY -0.1407182E 05 -0.1207182E 05 -0.2150918E 04 -0.9204328E 04 0.9347047E 04 280.025 280.025 1.0025 1.00201 1 3.257 -0.2150918E 04 -0.8464102E 03 0.2311302E 04 201.481 100.741 0.247283 2 6.515 -0.3106855 03 0.4726430E 03 0.5565300E 03 56.676 18.892 0.00504 3 9.772 -0.4578178E 03 -0.4726430E 03 0.3400938E 03 32.28 8:200 0.030385 4 13.029 -0.4578178E 03 -0.4701743E 03 0.8116222E 03 201.672 18.892 0.00504 3 9.772 -0.4578178E 03 -0.4701743E 03 0.8116222E 03 235.662 47.112 0.086812 5 16.287 -0.134038E 02 0.305439E 03 0.3787466 03 67.751 11.29 0.040520 6 19.544 -0.130081E 02 -0.2615999E 03 0.42248130 0.72814712 0.086812 5 16.287 -0.1310081E 02 -0.2615999E 03 0.402189E 02 33.183 -0.1340385 03 0.404042 9 0.082199E 02 3.8163 -0.1340385 03 0.404042 9 0.982199E 02 3.8163 -0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573	HARMONIC ANALY OVERALL CYCLIC	SIS	MODEL CL8705 D * 0.10075			T (017	CTR	13	FLT	12.0	TR	6	1 FLA	P BEND	STA 4	
-0.1407782E 05 -0.1627109E 04 -0.9204328E 04 0.9347047E 04 280.025 280.025 1.000000 1 3.257 -0.2150811E 04 -0.8404102E 03 0.2311362E 04 201.481 100.741 0.247283 2 6.515 -0.310683E 03 0.4725430E 03 0.5555300E 03 56.676 18.992 0.060504 3 9.772 -0.2837490E 03 0.1843433E 03 0.3400938E 03 32.822 8.206 0.036365 4 13.029 -0.4578179F 03 -0.6701743E 03 0.811622E 03 235.662 4 17.132 0.086832 5 16.287 -0.4578179F 03 -0.52635989E 03 0.3180466E 03 67.751 11.292 0.040520 6 19.544 -0.133081E 02 -0.2635989E 03 0.26348413E 03 272.457 38.092 0.042827 7 22.801 -0.3029068E 02 0.2674262E 01 0.3040849E 02 5.045 0.631 0.003253 8 26.059 -0.7386035E 02 0.8630176E 02 0.88251959E 02 33.163 3.687 0.009442 9 29.316 -0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 **MARKONIC AMALYSIS MODEL CL870S SHIP 33 T 017 CTR 13 FLT 12.0 TR 31 2 FLAP BEND STA 43 **DVERALL CYCLIC LOAD - 0.108598E 05** ZERO POSITION USED 3.75 LOAD/IN USED 26100.00 AJ 8J CJ PHIJC PSIJC CJ/CJMAX J FREQUENCY -0.1506541E 05 0.2873752E 04 -0.9816148E 04 0.1011908E 05 284.054 284.054 1.000000 1 3.257 -0.2519446E 04 -0.8026846E 03 0.2644101E 04 197.668 98.834 0.261305 2 6.515 -0.257352E 04 -0.982696E 03 0.33646870E 03 38.620 9.655 0.034261 4 13.029 -0.100070E 03 0.2074730E 03 0.871999E 03 217.230 7 19.451 0.0025502 3 9.772 -0.2708672E 03 0.257732E 03 0.831999E 03 217.230 63.946 0.00074 5 16.297 -0.11010070E 03 0.2074730E 03 0.871999E 03 217.230 63.946 0.00074 5 16.297 -0.110408E 02 -0.2785036E 02 0.9371228E 03 38.620 9.655 0.003614 5 16.297 -0.110408E 02 -0.2785036E 03 0.291946E 03 116.707 19.451 0.022650 6 19.544 -0.110408E 02 -0.179101EE 02 0.11014E 03 0.000000 1 3.2573 **ARRONIC AMALYSIS MODEL CL870S SHIP 33 T 017 CTR 13 FLT 12.0 TR 11 3 FLAP BEND STA 43 -0.110408E 02 -0.2785036E 03 0.3916148E 04 0.000000 1 3.2573 **ARRONIC AMALYSIS MODEL CL870S SHIP 33 T 017 CTR 13 FLT 12.0 TR 11 3 FLAP BEND STA 43 -0.110408E 02 -0.2785036E 03 0.3916148E 03 0.291946E 03 116.707 19.451 0.002000 1 3.2573 **ARRONIC AMALYSIS MODEL CL870S SHIP 33 T 017 CTR 13 FLT								•									
0.1627109E 00 - 0.920328E 04 0.9347047E 0. 280.025 280.025 1.0000000 1 3.257 0.215081E 04 - 0.8464102E 03 0.2311362E 04 201.481 100.7+1 0.247283 2 6.515 0.3106885E 03 0.4725430E 03 0.3555300E 03 56.676 18.892 0.000504 3 9.772 0.2457879E 03 0.1643032E 03 0.3555300E 03 56.676 18.892 0.000504 3 9.772 0.2457879E 03 0.1643032E 03 0.3555300E 03 56.676 18.892 0.000504 3 13.029 -0.4576179E 03 - 0.670173E 03 0.310958E 03 32.822 8.206 0.036385 4 13.029 -0.4576179E 03 - 0.670173E 03 0.310958E 03 32.822 8.206 0.036385 5 16.287 0.1130681E 02 - 0.265799VE 03 0.378766E 03 67.751 11.292 0.000520 6 19.544 0.1130681E 02 - 0.2674262E 01 0.3040849E 02 5.085 0.651 0.002253 8 26.099 0.7386035E 02 0.4650176E 02 0.8625195E 02 33.183 3.667 0.001429 9 29.316 0.264269VE 01 0.1057094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 ***MARMONIC AMALYSIS MODEL CL8705 SHIP 33 T 017 CTR 13 FLT 12.0 TR 31 2 FLAP BEND STA 43** DVERALL CYCLIC LOAD - 0.108548E 05 ZERO POSITION USED 3.75 LOAD/IN USED 26100.00 AJ SUBJECT OF STATES OF			BJ			CJ		F	HIJC		PSIJC	CJ	/CJ	MAX	J	Fi	EQUEACA
-0.2150811E 00 -0.8464102E 03 0.2511362E 04 201.481 100.741 0.247283 2 6.515 0.3106885E 03 0.4725430E 03 0.555300E 03 56.676 16.892 0.000504 3 9.7172 0.2837990E 03 0.1843434E 03 0.3400938E 03 32.822 8.206 0.036385 4 13.029 0.4578179E 03 -0.6701734E 03 0.811622#E 03 235.662 47.132 0.04032E 5 16.287 0.1434058E 03 0.3305479E 03 0.47846E 03 67.751 11.292 0.04052D 6 19.544 0.1310681E 02 -0.2635599E 03 0.4284013E 03 272.457 38.922 0.04052D 7 22.801 0.1306035E 02 0.4630176E 02 0.565595E 03 3.722.457 38.922 0.04052D 6 19.544 0.0329068E 02 0.267462E 01 0.4040849E 02 5.045 0.631 0.003253 8 26.059 0.7386035E 02 0.4630176E 02 0.8825195E 02 3.3.183 3.667 0.003253 8 26.059 0.7386035E 02 0.4630176E 02 0.8825195E 02 3.3.183 3.667 0.001424 9 29.316 0.2642449E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 00VERALL CYCLIC LOAD - 0.108598E 05			-0.9204328E	04	0.934	7047	E 04	. 25	10-025	5	280-025	1 -	000	000	1		3. 257
0.3106885E 03																	6.515
-0.457619E 030.6701743E 03 0.9116222E 03 235.662 47.132 0.00e832 5 16.287 0.131058E 03 0.3505479E 03 0.3787466E 03 67.751 11.292 0.00e520 6 19.544 0.1130681E 02 -0.263599E 03 0.2638413E 03 272.457 38.922 0.028227 7 22.801 0.1310681E 02 -0.2674262E 01 0.3040849E 02 5.045 0.631 0.003253 8 26.059 0.7386035E 02 0.4830176E 02 0.8825195E 02 33.183 3.687 0.009442 9 29.316 0.2642469E 01 0.1059094E 03 0.1059423E 03 38.571 8.857 0.011334 10 32.573 0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 0.000000 0.00000000000000000000000000	0.3106885E	03	0.4725430E	03					6.676	b		0.	040	504	3		9.172
0.130058E 03																	13.029
0.1130681E 02 -0.2615999E 03 0.2604049E 02 5.045 0.631 0.003253 8 26.059 0.7380035E 02 0.2614262E 01 0.3040449E 02 5.045 0.631 0.003253 8 26.059 0.7380035E 02 0.4830176E 02 0.8825195E 02 33.183 3.687 0.009442 9 29.316 0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 0.2642469E 01 0.108548E 05 0.108548E 05 0.108548E 05 0.108548E 05 0.108548E 05 0.108548E 05 0.2673352 05 0.108548E 05 0.2673352 05 0.2673																	16.287
0.3029068E 02															_		
0.7384035E 02 0.4830176E 02 0.88225195E 02 33.183 3.687 0.009442 9 29.316 0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 32																	
0.2642469E 01 0.1059094E 03 0.1059423E 03 88.571 8.857 0.011334 10 32.573 **ARRONIC ANALYSIS MODEL CL8705 SHIP 33 T 017 CTR 13 FLT 12.0 TR 31 2 FLAP 8END STA 43 **DVERALL CYCLIC LOAD = 0.108548E 05 **ZERO POSITION USED 3.75 LOAD/IN USED 26100.00 **AJ 8J CJ PHIJC PSIJC CJ/CJMAX J FREQUENCY -0.1506541E 05 0.2471352E 04 -0.9816148E 04 0.1011906E 05 284.054 284.054 1.4000000 1 3.257 -0.2519446E 04 -0.8024846E 03 0.2644161E 04 197.668 98.834 0.261305 2 6.515 0.24713646E 03 0.2587749E 03 0.3364155E 03 46.220 15.407 0.035420 3 9.772 0.2708672E 03 0.2163862E 03 0.3466870E 03 38.620 9.655 0.033261 4 13.029 -0.696428BE 03 -0.5275732B 03 0.8119995E 03 217.230 43.446 0.086174 5 16.227 -0.1030070E 03 0.2047430E 03 0.2291946E 03 116.707 19.451 0.022650 6 19.544 0.1874858E 02 -0.2735036E 02 0.9377223E 02 342.722 42.800 0.009267 8 26.059 0.1086623E 03 -0.459014F 02 0.1172182E 03 337.973 37.555 0.023215 7 22.801 0.8056102E 02 -0.2735036E 02 0.9377223E 02 342.722 42.800 0.009267 8 26.059 0.1086623E 03 -0.459014F 02 0.1172182E 03 337.973 37.555 0.023215 7 22.801 0.8056102E 02 -0.2735036E 02 0.9377223E 02 362.732 48.00 0.009267 8 26.059 0.1086623E 03 -0.459014F 02 0.1172182E 03 337.973 37.555 0.023215 7 22.801 0.8056102E 02 -0.2735036E 02 0.9377223E 02 362.732 48.00 0.009267 8 26.059 0.1086623E 03 -0.459014F 02 0.1172182E 03 337.973 37.555 0.023215 7 22.801 0.8058102E 04 -0.977461E 05 172182E 03 337.973 37.555 0.00000 **AJ*** **ARRONIC ANALYSIS MODEL CL8705 SHIP 33 T 017 CTR 13 FLT 12.0 TR 11 3 FLAP 8END STA 43 **DVERALL CYCLIC LOAD = 0.115014E 05																	
ARRHONIC ANALYSIS MODEL CL8705 SHIP 33 T 017 CTR 13 FLT 12.0 TR 31 2 FLAP BEND STA 43 DVERALL CYCLIC LOAD = 0.108548E 05 AJ												-			_		
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-0.3651694E 03 -0.7205078E 03 0.8077625E 03 243.123 48.625 0.073562 5 16.287 -0.3270410E 02 0.3904639E 03 0.3918311E 03 94.788 15.798 0.035684 6 19.544 0.1439431E 02 -0.2327917E 03 0.2332303E 03 273.538 39.077 0.021241 7 22.801 0.7901508E 02 0.3364095E 02 0.8587834E 02 23.062 2.883 0.007821 8 26.0599 -0.3451183E 02 0.4677701E 02 0.5813049E 02 126.420 14.047 0.005294 9 29.316	AJ -0.1436284E 0.3749349E	05 04	BJ 0-1032079E	.05	0-109	CJ 80721	E 05	P 28	H1 JC		289.965	1,	000	000_	i_	FR	3.257 6.515
-0.3270410E 02	AJ -0.1436284E 0.3749349E -0.1932396E 0.4668818E	05 04 04 03	8J -0.1032079E -0.9779661E 0.3289668E	05 03 03	0.109 0.216 0.571	CJ 8072 5772 1487	E 05	P 28	HIJC 9.965	:	289.965 103.422	l.	000 197	000_ 234	1_2	FR	3.257
0.1439431E 02 -0.2327917E 03 0.2332363E 03 273.538 39.077 0.021241 7 22.801 0.7901508E 02 0.3364095E 02 0.8587834E 02 23.062 2.833 0.007821 8 26.059 -0.3451183E 02 0.4677701E 02 0.5813049E 02 126.420 14.047 0.005294 9 29.316	AJ -0.1436284E 0.3749349E -0.1932396E 0.4668818E 0.2319624E	05 04 04 03 03	8J -0.1032079E -0.9779661E 0.3289868E 0.4525315E	05 03 03 03	0.109 0.216 0.571 0.508	CJ 80721 57721 14871 51881	E 05 E 04 E 03	P 28 20 3	HIJC 9.965 6.844)	289.965 103.422 11.723	1. 0. 0.	000 197 052	000 234 014	2 3	FR	3.257 6.515
0.7901508E 02	-0.1436284E 0.3749349E -0.1932396E 0.4668818E 0.2319624E -0.3651694E	05 04 04 03 03	-0.1032079E -0.9779661E 0.3289608E 0.4525315E -0.7205078E	05 03 03 03	0.109 0.216 0.571 0.508	CJ 80721 57721 14871 51881 7625	E 05 E 04 E 03 E 03	P 28 20 3 3 6 24	HIJC 9.965 6.844 5.170 2.861		289.965 103.422 11.723 15.715 48.625	1. 0. 0. 0.	0000 197 052 046	000_ 234 014 310	2 3 4 5	FR	3.257 6.515 9.772 13.029
-0.3451183E 02 0.4677701E 02 0.5813049E 02 126.420 14.047 0.005294 9 29.316	AJ -0.1436284E 0.3749349E -0.1932396E 0.4668818E 0.2319624E -0.3651694E -0.3270410E	05 04 04 03 03 03	8J -0.1032079E -0.9779661E 0.3289668E 0.4525315E -0.7205078E 0.3904639E	05 03 03 03 03	0.109 0.216 0.571 0.508 0.807 0.391	60721 57721 14871 51881 76251	E 05 E 04 E 03 E 03 E 03 E 03	28 20 3 6	9.965 6.844 5.170 2.861 3.123) 	289.965 103.422 11.723 15.715 48.625 15.798	0.0 0.0 0.0 0.0	0000 197 052 046 073	000 234 014 310 562 684	1 2 3 4 5 6	F	3.257 6.515 9.772 13.029 16.287 19.544
and the second of the second o	AJ -0.1436284E 0.3749349E -0.1932396E 0.4668818E 0.2319624E -0.3651694E -0.3270410E 0.1439431E	05 04 04 03 03 03 02 02	8J -0.1032079E -0.9779661E 0.3289808E 0.4525315E -0.7205078 0.3904639E -0.2327917E	05 03 03 03 03 03 03	0.109 0.216 0.571 0.508 0.807 0.391 0.233	CJ 57720 57720 14870 51880 76250 83110 23630	E 05 E 04 E 03 E 03 E 03 E 03	P 28 20 3 6 6 24 9	9.965 6.844 5.170 2.861 3.123 4.788		289.965 103.422 11.723 15.715 48.625 15.798 39.077	1.0 0.0 0.0 0.0 0.0	0000 197 052 046 073 035	000 234 014 310 562 684	1 2 3 4 5 6	FR	3.257 6.515 9.772 13.029 16.287 19.544 22.801
<u>-0.1449653E 02 </u>	AJ -0.1436284E 0.3749349E -0.1932396E 0.2319624E -0.3651694E -0.3270410E 0.1439431E 0.7901508E	05 04 04 03 03 03 02 02	-0.1032079E -0.9779661E 0.3289868E 0.4525315E -0.7205078E 0.3904639E -0.2327917E 0.3364095E	05 03 03 03 03 03 03 03	0.109 0.216 0.571 0.508 0.807 0.391 0.233 0.858	CJ 57721 14871 51881 7625(83111 23631	E 05 E 04 E 03 E 03 E 03 E 03 E 03 E 03	P 28 20 3 3 6 24 9 27 27	HIJC 9.965 6.844 5.170 2.861 3.123 4.788 3.538) 	289.965 103.422 11.723 15.715 48.625 15.798 39.077 2.883	0.0 0.0 0.0 0.0 0.0	0000 1973 0520 0463 0733 0350 0213	000 234 014 310 562 684 241	1 2 3 4 5 6 7	FF	3.257 6.515 9.772 13.029 16.287 19.544 22.801 26.059

Table III. (Continued)

	(CONTINUED)										
HARMONIC ANALYSI: OVERALL CYCLIC LO									2 FLAP	BEND	STA 118
ZERO POSITION US	D 0.39	LOAD	IN USE)	-14150.	00					
AJ -0.2422429E 04	8.3		CJ		PHI	JC	PSIJC	CJ/CJ	MAX	J	FREQUENCY
0. 1262476E 04	-0.3019463E	04 (.32727	7E_04	292.	690	292.690	1.000	000		3,257
-0.7065264E 03	0.3439075E	03 (.78578	LOE 03	154.	045	77.023	0.240	097	2	6.515
0.3732480E 03	0.1923978E		.41991			270	9.090			3	9.772
0.4213823E 03	0.1246920E		.421566			695	0.424				13,029
0.5710398E 03	0.3321436E		0.66130			149	6.030			5	16.287
-0.4758710E 02	-0.1032009E		.113644				40.874	0.034		6	19.544
0.2084215E 02	0,1166615E		0.118508				_ 11.410_				22.801
-0.2616075E 01	0.64243026		0.69372				14.022			8	26.059
-0.3362935E 02	0.4615292E		0.571053 5.0464				14.009			9 10	29.316 32.573
-0.5058817E 02	-0.5316616E	<u> </u>).50866	10E UZ	186.	UUU	18.600	0,015	76	<u>, , , , , , , , , , , , , , , , , , , </u>	36.311
ARMONIC ANALYSIS	AC = 0.60738	7E_04					12.0	TR 34	2 CHOR	BEND	STA 21.
ZERO POSITION USE		LOADA	IN USEC		-20600.	00					
AJ 0.1036114E 05			CJ		PHI	JC	DLIZA	CJ/CJ	MAX	J	FREQUENCY
O. 8815503E_03	0.1042737E		1. 13654				49.788_			l	3.257
-0.4982544E 03	-0.3412255E		.344844				130.846			2	6.515
-0.1678091E 03	0.1094136E		. 1 10692				32. 907			3	9.772
-0.5265610E 03	-0.9837976E		.111585				60.461			. •	13.029
0.2841682E 03	0.4810938E		-288211			609	1.922			5	16.287
0.2680664E 02 -0.7164551E 02	0.2266113E -0.7410481E		.351016 .720271				6.702 26.558	0.020	179	` 6 7	19.544
	0.2406966E		.2938+0				15.625	0.008			22.801 26.059
			.134383				26.533	0.038		9	29.316
-0.1685449E 02).323119				12.112			10	32.573
-0.6962891E 02 -0.1669780E 02	-0.1149382E 0.2766309E	VE (10363773	75E 02	121.	110					
-0.6962891E 02 -0.1669780E 02	0.2766309E										
-0.6962891E 02	0.2766309E	SHIP					12.0			D BEND	
-0.6962891E 02 -0.1669780E 02 HARMONIC ANALYSIS	0.2766309E	SHIP LE_04		017		13 FL1				D BEND	
-0.6962891E 02 -0.1669780E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.2693743E 04	0.2766309E MODEL CL8705 AD = 0.39972 D &.25	SHIP LE_04 LUAD/	33 1 'IN USEC	017	CTR 16200.	13 FL1	PSIJC	TR 38	2 CHOR) BEND	STA 69
-0.6902891E 02 -0.1669780E 02 HARMONIC ANALYSIS OVERALL CYCLIC LO EERO POSITION USE AJ -0.2693743E 04 0.2278215E 03	0.2766309E MODEL CL8705 IAD = 0.39972 D 1.25 BJ 0.9862517E	SHIP LE 04 LUAD/	33 1 'IN USEC CJ	017	CTR 16200. PHI76.	13 FL1 00 JC 993	PSIJC 76-993	TR 38	2 CHORE		FREQUENCY
-0.6962891E 02 -0.1669780E 02 4ARMONIC ANALYSIS DVERALL CYCLIC LO LERQ POSITION USE AJ -0.2693743E 04 0.2278215E 03 -0.4527401E 03	0.2766309E MODEL CL8705 IAD = 0.39972 D 1.25 BJ 0.9862517E -0.2141061E	SHIP LE 04 LUAD/	33 1 IN USEC CJ 0.101222	017 38_04 06_04	CTR 16200. PHI 76. 258.	13 FL1 00 JC 993	PSIJC 76.993	CJ/CJ 0.462 1.000	2 CHORE	j 1	FREQUENCY
-0.6962891E 02 -0.1669780E 02 MARMONIC ANALYSIS IVERALL CYCLIC LO EERO POSITIUN USE -0.2693743E 04 0.2279215E 03 -0.5827461E 03 -0.5443007E 02	0.2766309E MODEL CL8705 AD = 0.39972 D 1.25 BJ 0.9862517E -0.2141061E 0.7812795E	SHIP LE 04 LUAD/	33 1 IN USEC CJ 0.101222 0.218840	35 04 36 04 36 04 38 03	CTR 16200. PHI 76. 258. 93.	13 FL1 00 JC 993 060 945	PSIJC 76.993 129.030 31.328	CJ/CJ 0.462 1.000 0.357	2 CHORE MAX 53 9 000 874	J 1 2 3	FREQUENCY 3.257 6.515 9.772
-0.6962891E 02 -0.1669780E 02 MARMONIC ANALYSIS DVERALL CYCLIC LO ZERO POSITION USE AJ -0.2693743E 04 0.2278215E 03 -0.4527401E 03 -0.5544007E 02 -0.5649126E 03	0.2766309E MODEL CL8705 IAD = 0.39972 0.9862517E -0.2141061E 0.78137064E	SHIP LUAD/ LUAD/ 03 0 04 0 03 0	33 1 IN USEC CJ 0.101222 0.218840 0.783173	3E 04 3E 04 3E 03 3E 03	CTR 16200. PHI 76. 258. 93. 234.	13 FL1 00 JC 993 060 945 201	PSIJC 76.993 129.030 31.328 56.550	CJ/CJ 0.462 1.000 0.357 0.441	2 CHORE MAX 53.9 007 874 30.8	J 1 2 3	FREQUENCY 3.257 6.515 9.772 13.029
-0.6962891E 02 -0.1669780E 02 MARMONIC ANALYSIS DVERALL CYCLIC LO ERO POSITION USE AJ -0.2693743E 04 0.2278215E 03 -0.4527401E 03 -0.5443007E 02 0.1619971E 03	0.2766309E MODEL CL8705 IAD = 0.39972 D 1.25 BJ 0.9862517E -0.2141041E 0.781279E -0.7833064E -0.1088198E	SHIP LUAD/ LUAD/ 03 0 04 0 03 0 03 0	33 T CJ 0.101222 0.218840 0.783173 0.96576 0.195153	3E_04 017 018 00E_04 03E_03 03E_03	CTR 16200. PHI 76. 258. 93. 234. 326.	13 FL1 00 JC 993 060 960 201	PSIJC 76.993 129.030 31.328 58.550 65.222	CJ/CJ 0.462 1.000 0.357 0.441	2 CHORE MAX 53.9 000 87.4 30.8 17.6	1 2 3 4	FREQUENCY 3.257 6.515 9.772 13.029
-0.6962891E 02 -0.1669780E 02 ARMONIC ANALYSIS OVERALL CYCLIC LO EERO POSITION USE -0.2693743E 04 0.2278215E 03 -0.4527461E 03 -0.5443007E 02 -0.5649126E 03 0.1619971E 03 0.1723985E 01	0.2766309E MODEL CL8705 AD = 0.39972 D 1.25 BJ 0.9862517E -0.2141061E 0.7812795E -0.7833064E -0.1088198E -0.3775709E	SHIP LUAD/ LUAD/ 03 0 04 0 03 0 03 0 03 0	33 1 IN USEC CJ 1.101222 2.218840 .783173 1.965761 1.195153	3E 04 00E 04 03E 03 03E 03 03E 03	CTR 16200. PHI 76. 258. 93. 234. 326. 272.	13 FL1 00 JC 993 060 985 201 109 614	PSIJC 76.993 129.030 31.328 58.550 65.222	CJ/CJ 0.462 1.000 0.357 0.441 0.089	2 CHORI MAX 539 000 874 308 176 271	1 2 3 4	FREQUENCY 3.257 6.515 9.772 13.029 16.287 19.544
-0.6962891E 02 -0.1669780E 02 HARMONIC ANALYSIS DVERALL CYCLIC LO LERO POSITIUN USE -0.2693743E 04 -0.2278215E 03 -0.4527461E 03 -0.5443007E 02 -0.5649126E 03 0.1619971E 03 -0.123985E 01 -0.1124405E 03	0.2766309E MODEL CL8705 AD = 0.39972 D 1.25 BJ 0.9862517E -0.2141061E 0.7812795E -0.7633064E -0.1088198E -0.3775769E 0.4816296E	SHIP LOAD/ 03 0 04 0 03 0 03 0 03 0 02 0 02 0	33 1 CJ CJ 0.101222 0.783173 0.965761 0.195153 0.377970	3E_04 0E_04 3E_03 5E_03 3E_03 3E_03 4E_03	CTR 16200. PHI 76. 258. 93. 234. 326. 272.	13 FL1 00 JC 993 060 985 201 109	PSIJC 76.993 129.030 31.328 58.550 65.222 45.436 22.402	CJ/CJ 0.462 1.000 0.357 0.441 0.087 0.017	2 CHORD 53.9 000 874 308 176 271 895	J 1 2 3 4 5 6	FREQUENCY 3.257 6.515 9.772 13.029 16.287 19.546
-0.6962891E 02 -0.1669780E 02 ARMONIC ANALYSIS OVERALL CYCLIC LO EERO POSITION USE -0.2693743E 04 0.2278215E 03 -0.4527461E 03 -0.5443007E 02 -0.5649126E 03 0.1619971E 03 0.1723985E 01	0.2766309E MODEL CL8705 AD = 0.39972 D 1.25 BJ 0.9862517E -0.2141061E 0.7812795E -0.7833064E -0.1088198E -0.3775709E	SHIP LUAD/ LUAD/ 03 0 03 0 03 0 03 0 02 0 02 0	33 1 IN USEC CJ 1.101222 2.218840 .783173 1.965761 1.195153	017 017 00E 04 03E 03 03E 03 03E 03	CTR 16200. PHI 76. 258. 934. 326. 272. 156. 63.	13 FL1 00 JC 993 060 985 201 109 614 813 307	PSIJC 76.993 129.030 31.328 58.550 65.222	CJ/CJ 0.462 1.000 0.357 0.441 0.089	2 CHORG MAX 539 000 874 308 176 271 895 675	1 2 3 4	FREQUENCY 3.257 6.515 9.772 13.029 16.287 19.544

Table III. (Continued)

TEST 12 N = 1	11								
	SIS MODEL CL8705 LOAD = 0.50170		33 T 01	17 C1	TR 14 F	LT 12.0	TR 6 1 FLAP	BEND	STA 43
ERO POSITION	u\$ED 9.52	LUAD/II	N USED	-26	500.00				
AJ	81		CJ.		PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
-0.1054964E	05							_	
0.3780333E			+026003E		159.881	159.881		<u>i</u> _	3.268
-0.9805527E			1011052E		165.891	82.946	0.251130	2	6.536
0.1672853E 0.8209483E			4208181E 2584604E		66.576 71.480	22.192 17.870	0.104525 0.06419#	3	9.804 13.072
-0.2396727E			779647JE		252.097	50.419	0.193653	5	16.340
0.1758127E			1613004E		83.742	13.957	0.040065	6	19.698
0.39585008			1541147E		284.885			7	22.876
0.2414973E			1177366E		481.836	35.230	0.029244	8	26.144
-0.2391850E			303285#E		217-941	24.216	0.007533	٠ 9	29.412
-0.6707190E	01 0-1536502E	02 0.	1676538E	02	113.584	11.358	0.004164	10	32.680
VERALL CYCLIC	SIS MODEL CL8705 LOAD = 0.27541	9E 04	33 T 0			LT 12.0	TR 31 2 FLAP	PEND	STA 43
ERO POSITION	USEO 3.75	LGAD/II	M USED	20	100.00				
-0.1114830E			ÇJ		PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
0.1434687E			1599524E		153.759	153.759	1.000000	<u> </u>	<u>3.</u> 268
-0.8749473E			8780y18E		184-850	92.425	0.548971	2	6.536
0.2041443E (4697588E 3645652E		64.242 79.470	21.414 19.867	0.293687 0.227921	3 4	9.804 13.07 <i>2</i>
-0.4644307E			1213447E		230.318	40.064	0.454726	- 5	16.340
-0. 2174163E	_		2205648E		189.693	31.615	0.137894	6	19.608
-0.3163422E			2446200E		262.570	37.510	0.152933	7	22.876
-0.2867610E			1475957E		258.797	32.350	0.092277	8	26.144
0.3050564E	01 -0.11471856	03 0.	1147590E	03	271.523	30.169	0.071746	9	29.612
0.4771060E	02 -0.1242524E	02 0.	4930200E	02	345.403	34.540	0.030823	10	32.680
	SIS MODEL CL8705		33 T 01	17 G1	r 14 F	LT 12.0	TR 11 3 FLAP	BEND	STA 43
ERO POSITION	USED 8.27	LOAD/II	N USED	-30	500.00				•
AJ -0.1112912E	8J		Cl		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1431002E		02 0.	1431865E	04	178.010	178.010	1.000000	1_	3.268
-0. 6166160E		03 0.0	302 ¥804	03	201.092	100.546	0.461562	2	6.536
0.2090819E			3976624E		58.279	19.426	0.277723	. 3	9.804
0.2385352E			381 80 00 E		85.144	21.286	0.196806	4	13.072
-0.1155607E			5294844E		257.394	51.479	0.369787	5	16.340
0.18783426			19516208		344.249	57.375	0.136299	•	19.608
0.4459927E -0.1799673E			7831023E 2547118E		235.283	33.612_ 28.131	0.054691	7	22.876
40 41 7741JE		Ja V.		V &	エムノマリマノ	400 6 7 6	0001107	•	26.144
0-2944183E	02 -0.5819770E	01 0	3001152E	0.2	348.818	38.758	0.020960	9	29.412

Table III. (Continued)

TEST 12 N	- 11	(CONTINUED)					<u>.</u>			· · · · · · · · · · · · · · · · · · ·
MARMONIC AND	ALYSIS LIC LO	MODEL CL8705 DAD = 0.19982	SHIP	: 33 T	017		LT 12.0	TR 41 2 FLA	P SEND	STA 118
ERO POSITI	ON USE	D 0.39	LOAD	/IN USED)	-14150.00				
-0. 223722		BJ		ÇJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0. 702 908		-0-12533216	04	0.143697	14E 04	299.285	299.285	1.000000	1	3.268
-0.140329		0.5685537E		0.605052			51.705	0.421060	. 2	
0.676346)E 02	0.6057730E	02	0.907967	4E . 02	41.849	13.950	0.063186	3	9.804
-0.124615		-0.7185014E		0. 143845			52.492	0.100103	4	13.072
0.240051		0.3319973E		0.409690			10.826		5	16.340
0.513611		0.4463831E		0.680480			6.832	0.047355	6.	19.608
0.272259		0.1005395E		0.104160			10.693			22.876
0.179096		-0.3013408E		0.181613			43.806		6	26.144
-0.1800066 -0.573176		0.1665019E -0.1322647E		0.245204 0.144150			15.248 24.657	0.017064 0.010032	9 10	29.412 32.680
									•	
	ic_ro	MODEL CL8705 AD = 0.294103	BE 04	33 T	-:	CTR 14 F	LT 12.0	TR 34 2 CHQ	RD BEND	STA 21.
AJ		BJ		CJ CJ		PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
0.9915969	F 04	53		U.J		FHITC	73136	CJ/CJRAA	•	FREQUENCY
0.108757		0.1105789E	04	0.155099	8E 04	45.476	45.476	1-000000	1 .	3.268
-0.581900		0.9292317E		0.109639			61.028	0.706895	- 2	6.536
0.5464810)E 02	· 0.9148990E	U2 1	0.106568	3E 03	59.150	19.717	0.068709	. š.	9.804
0.4136957	1E 02	-0.3155530E	03	18253 د . ٥	2E 03	59.150 277.469	69.367	0.205192	. 4	13.072
0.413695	E 03	-0.3155530E -0.2084382E	03	0.266275 0.266275	2E 03	59.150 277.469 308.483	69.367 61.697	0.205192 0.171680	5	13.072
0.4136957 0.1656994 0.4721169	E 03	-0.3155530E -0.2084382E -0.5797710E	03 03 02	0.266275 0.266275 0.747682	2E 03 6E 03 0E 02	59.150 277.469 308.483 309.156	69.367 61.697 51.526	0.205192 0.171680 0.048207	<u> </u>	13.072 16.340 19.608
0.413695 0.165699 0.4721169 ~0.545718	E 03	-0.3155530E -0.2084382E -0.5797710E 0.9842979E	03 03 02 02	0.266275 0.266275 0.747682 0.112545	2E 03 6E 03 6E 03	59.150 277.469 308.483 309.156 119.005	69.367 61.697 51.526 17.001	0.205192 0.171680 0.048207 0.072563	5 6 7	13.072 16.340 19.608 22.876
0.413695 0.165699 0.4721169 -0.5457183 -0.5746690	E 03 E 02 E 02	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E	03 03 02 02 02	0.218253 0.266275 0.747682 0.112545 0.951547	2E 03 6E 03 6E 03 9E 02	59.150 277.469 308.483 309.156 119.005 232.848	69.367 61.697 51.526 17.001 29.106	0.205192 0.171680 0.048207 0.072563 0.061351	5 6 7 8	13.072 16.340 19.608 22.876 26.144
0.4136957 0.165699 0.4721169 -0.5457182 -0.5746690 -0.876289	E 03 E 03 E 02 E 02	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E -0.3449099E	03 03 02 02 02 02 03	0.318253 0.266275 0.747682 0.112545 0.951547 0.355867	2E 03 6E 03 0E 02 6E 03 9E 02 4E 03	59.150 277.469 308.483 309.156 119.005 232.848 255.745	69.367 61.697 51.526 17.001 29.106 28.416	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444	5 6 7 8 9	13.072 16.340 19.608 22.876 26.144 29.412
0.413695 0.165699 0.472116 -0.5457182 -0.5746690	E 03 E 03 E 02 E 02	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E	03 03 02 02 02 02 03	0.218253 0.266275 0.747682 0.112545 0.951547	2E 03 6E 03 0E 02 6E 03 9E 02 4E 03	59.150 277.469 308.483 309.156 119.005 232.848 255.745	69.367 61.697 51.526 17.001 29.106	0.205192 0.171680 0.048207 0.072563 0.061351	5 6 7 8	13.072 16.340 19.608 22.876
0. 413695' 0. 165699' 0. 472116' ~0. 545718; ~0. 574669(~0. 876289) ~0. 304027'	ATA212 VE 05 VE 05 VE 05 VE 05 VE 05 VE 05 VE 05	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E -0.3449099E	03 03 02 02 02 03 03 02	0.318253 0.266275 0.747682 0.112545 0.951547 0.355867	2E 03 6E 03 6E 03 9E 02 4E 03 7E 02	59.150 277.469 308.483 309.156 119.005 232.648 255.745 249.880	69.367 61.697 51.526 17.001 29.106 28.416 24.988	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444	5 6 7 8 9	13.072 16.340 19.608 22.876 26.144 29.412 32.680
0. 413695 0. 165695 0. 472116 -0. 545718 -0. 574669 -0. 876289 -0. 304027	VTA212 VTA212	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575	03 03 02 02 02 03 03 03 02 5 8 8 8 8 9 9 9 9	0.318253 0.266275 0.747682 0.112545 0.951547 0.355867 0.883838	2E 03 6E 03 0E 02 6E 03 9E 02 4E 03 7E 02	59.150 277.469 308.483 309.156 119.005 232.648 255.745 249.880	69.367 61.697 51.526 17.001 29.106 28.416 24.988	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985	5 6 7 8 9	13.072 16.340 19.608 22.876 26.144 29.412 32.680
0. 413695 0. 165699 0. 472116 -0. 545718 -0. 574669 -0. 876289 -0. 304027 ARMONIC AND VERALL CYCL	TL TO TL	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575	03 03 02 02 02 03 03 03 02 5 8 8 8 8 9 9 9 9	018253 0266275 0266275 0112545 0951547 0355867 0883838	02E 03 06E 03 06E 03 06E 03 09E 02 04E 03 07E 02	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880	69.367 61.697 51.526 17.001 29.106 28.416 24.988	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985	5 6 7 8 9	13.072 16.340 19.608 22.876 26.144 29.412 32.680
0.413695 0.165699 0.4721169 -0.5457182 -0.5746699 -0.8762899 -0.304027	TE 02 DE 03 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02	-0.3155530E -0.2084382E -0.5797710E 0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193573	03 03 02 02 02 02 03 03 02 SHIP 5E 04	0.318253 0.266275 0.747062 0.112545 0.951547 0.355867 0.883838 33 T	2E 03 6E 03 0E 02 6E 03 9E 02 4E 03 7E 02	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 F	69.367 61.697 51.526 17.5001 29.106 28.416 24.988	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO	5 6 7 8 9 10	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69
0.413695 0.165697 0.472116 -0.574669 -0.876289 -0.304027 ARMUNIC AND VERALL CYCLERO POSITIO	TE 02 TE 03 TE 03 TE 02 TE 02 TE 02 TE 02 TE 02	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575	03 03 02 02 02 02 03 03 02 SHIP 5E 04	0.318253 0.266275 0.747682 0.112545 0.951547 0.355867 0.383838 33 T	02E 03 66E 03 60E 02 66E 03 9E 02 44E 03 77E 02	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 F	69.367 61.697 51.526 17.001 29.106 28.416 24.988	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO	5 6 7 8 9 10	13.072 16.340 19.608 22.876 26.144 29.412 32.680
0.413695 0.165690 0.472116 -0.545718 -0.574669 -0.876289 -0.304027 ARMUNIC ANY VERALL CYCI ERO POSITIO -0.2693411 0.3459866	PE 02 DE 03 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575 BJ 0.9346492E	03 03 02 02 02 03 02 03 02 SHIP 5E 04 LUAD	0.318253 0.266275 0.747642 0.112545 0.951547 0.355867 0.3683838 33 T	2E 03 6E 03 0E 02 6E 03 9E 02 4E 03 7E 02	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 F	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO	5 5 7 8 9 10	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69
0.413695 0.165690 0.472116 -0.545718 -0.5746690 -0.876289 -0.304027	NE 02 NE 03 NE 03 NE 02 NE 02 NE 02 NE 02 NE 02 NE 02 NE 03 NE 04 NE 03 NE 03 NE 04	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575 D 1.25 BJ 0.9346492E 0.5166265E	03 03 02 02 02 02 03 02 SHIP 5E 04 LUAD	0.318253 0.266275 0.747062 0.112545 0.951547 0.355807 0.363838 33 T /IN USED CJ 0.996632	2E 03 6E 03 6E 03 6E 03 9E 02 4E 03 7E 02	59.150 277.469 308.483 309.156 119.005 232.448 255.745 249.880 CTR 14 F	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0 PSIJC 69.686 54.695 19.557 71.800	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO	5 6 7 8 9 10 RD BEND	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69 FREQUENCY 3.268 6.536 9.804
0.413695 0.165699 0.472116 -0.5457182 -0.574669 -0.876289 -0.304027 ARMONIC ANA VERALL CYCI ERO POSITIO 0.345986 -0.1818280 0.625750 0.760233 0.0924035	NE 02 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575 D 1.25 BJ 0.9346492E 0.5166265E 0.1027982E -0.2455713E -0.2599707E	03 03 02 02 02 02 03 02 03 04 LUAD	0.318253 0.266275 0.747642 0.112545 0.951547 0.355867 0.355867 0.483838 33 T /IN USED CJ 0.996632 0.547690 0.257069	02E 03 6E 03 6E 03 6E 03 9E 02 4E 03 7F 02 017 017	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 F	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0 PSIJC 69.686 54.695 19.557 71.800 50.983	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHOI CJ/CJMAX 1.000000 0.549541 0.120752 0.257938 0.269943	4 5 6 7 8 9 10 RD BEND	13.072 16.340 19.608 22.876 26.144 29.412 32.680 5TA 69 FREQUENCY 3.268 6.536 9.804 13.072 16.340
0.413695 0.165699 0.472116 -0.545718 -0.574669 -0.876289 -0.304027 ARMUNIC ANA VERALL CYCI ERO POSITIO 0.3459866 -0.1818286 0.625750 0.760233 0.0924033 0.1522098	PE 02 DE 03 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 02 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03 DE 03	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575 D 1.25 BJ 0.9346492E 0.5166265E 0.1027982E -0.2455713E -0.2599707E	03 03 02 02 02 02 03 02 03 04 LUAO	0.318253 0.266275 0.747042 0.112545 0.951547 0.355807 0.355807 0.483838 33 T /IN USED CJ 0.996632 0.547090 0.120345 0.269033 0.288549	02E 03 6E 03 6E 03 6E 03 9E 02 4E 03 7F 02 017 017 017 017	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 FI 16200.00 PHIJC 69.686 109.390 58.670 287.201 284.914 58.163	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0 PSIJC 69.686 54.695 19.557 71.800 50.983 9.694	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO CJ/CJMAX 1.000000 0.549541 0.120752 0.257938 0.269943 0.028952	5 6 7 8 9 10 RO BEND	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608
0.413695 0.165699 0.472116 -0.5746691 -0.5746691 -0.876289 -0.304027 ARMUNIC AN VERALL CYCI ERO POSITIO 0.345986 -0.181828 0.625750 0.760233 0.0924039 -0.152209 -0.1387834	ALYSIS. JC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO NE 04 ALYSIS LC LO ALYSIS LC LO ALYSIS LC LO ALYSIS AL	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193573 D 1.25 BJ 0.9346492E 0.5166265E 0.1027982E -0.2455713E -0.2451382E 0.7089528E	03 03 02 02 02 02 03 03 04 03 03 03 03 03 03 03 02	0.318253 0.266275 0.747682 0.112545 0.951547 0.355867 0.355867 0.483838 33 T /IN USED 0.547690 0.547690 0.257069 0.268549 0.155842	02E 03 6E 03 6E 03 9E 02 9E 02 9E 03 7E 02 017 017	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 FI 16200.00 PHIJC 69.686 109.390 58.670 287.201 284.914 58.163 152.941	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0 PSIJC 69.686 54.695 19.557 71.800 50.983 9.694 21.849	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO CJ/CJMAX 1.000000 0.549541 0.120752 0.257938 0.269943 0.028952 0.156369	4 5 6 7 8 9 10 RD BEND	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608 22.876
0.413695 0.165699 0.472116 -0.5457180.574669 -0.876289 -0.304027 ARMUNIC ANVERALL CYCI ERO POSITIO 0.345986 -0.1818286 0.625750 0.760233 0.0522096 -0.1387836 -0.135051	RE 02 RE 03 RE 02 RE 02 RE 02 RE 02 RE 02 RE 03 RE 03 RE 03 RE 03 RE 03 RE 02 RE 02 RE 03 RE 03 RE 03 RE 03 RE 03 RE 03	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193575 D 1.25 BJ -0.9346492E 0.516625E 0.1027982E -0.2455713E -0.2599707E 0.2451382E 0.7202641E	03 03 02 02 02 02 02 03 02 5HIP 5E 04 LOAO.	0.318253 0.26275 0.747642 0.112545 0.951547 0.355867 0.355867 0.483838 33 T /IN USED 0.996632 0.996632 0.120345 0.267069 0.269033 0.288549 0.155842 0.1732815	2E 03 6E 03 6E 03 6E 03 9E 02 7E 02 017 017 017 017 017 02 03 6E 03 6E 0	59.150 277.469 308.483 309.156 119.005 232.448 255.745 249.880 CTR 14 F 16200.00 PHIJC 69.686 109.390 58.670 284.914 58.163 152.941 100.620	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0 PSIJC 69.686 54.695 19.557 71.800 50.983 9.694 21.849 12.577	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO CJ/CJMAX 1.000000 0.549541 0.120752 0.257938 0.269943 0.028952 0.156369 0.073529	4 5 6 7 8 9 10 RD BEND	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608 22.876 26.144
0.413695' 0.1656990' 0.472116' -0.574669' -0.876289' -0.304027' ARMUNIC ANA VERALL CYCI ERO POSITIO -0.2693411 0.3459866 -0.1818280 0.6257500 0.7602333 0.0522090 -0.1387834	NE 02 NE 03 NE 02 NE 02 NE 02 NE 02 NE 02 NE 02 NE 02 NE 02 NE 03 NE 03 NE 03 NE 03 NE 02 NE 02 NE 03	-0.3155530E -0.2084382E -0.5797710E -0.9842979E -0.7584190E -0.3449099E -0.8299023E MODEL CL8705 AD = 0.193573 D 1.25 BJ 0.9346492E 0.5166265E 0.1027982E -0.2455713E -0.2451382E 0.7089528E	03 02 02 02 02 03 03 03 03 03 03 03 03 02 02 02 02 02 02 03 03 03 03 03 03 03 03 03 03 03 03 03	0.318253 0.266275 0.747682 0.112545 0.951547 0.355867 0.355867 0.483838 33 T /IN USED 0.547690 0.547690 0.257069 0.268549 0.155842	02E 03 6E 03 6E 03 6E 02 9E 02 4E 03 7F 02 017 017 017 017	59.150 277.469 308.483 309.156 119.005 232.848 255.745 249.880 CTR 14 F 16200.00 PHIJC 69.686 109.390 58.670 287.201 284.914 58.163 152.941 100.620 237.451	69.367 61.697 51.526 17.001 29.106 28.416 24.988 LT 12.0 PSIJC 69.686 54.695 19.557 71.800 50.983 9.694 21.849	0.205192 0.171680 0.048207 0.072563 0.061351 0.229444 0.056985 TR 38 2 CHO CJ/CJMAX 1.000000 0.549541 0.120752 0.257938 0.269943 0.028952 0.156369	4 5 6 7 8 9 10 RD BEND	13.072 16.340 19.608 22.876 26.144 29.412 32.680 STA 69 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608 22.876

Table III. (Continued)

TEST 12 N = 12							
ANALYSIS			7 CTR 15 FL	T 12.0	TR 6 1 FLA	BEND	STA 43
WERALL CYCLIC LO	AD = 0.518157E 04	. •					
ERO POSITION USE	9.52 LU	AD/IN USED	-26500.00				
LA	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX	L	FREQUENCY
-0.1031332E 05							
-0.2285722E 04	0.3543391E 04	0.4216646E C		122.825	1.000000	1	3.268
0.3565895E 02	-0.2826858E 03	0.28492585		138.595	<u>0.</u> 06757 <u>2</u>		6.536
0.1733150E 03	0.58913946 03	0.61410358 (24.536	0.145638	3	9.804
0.6129915E 02 -0.1429324E 05	0.3846567E 03 -0.5959155E 03	0.36951225 C		20.236 51.302	0.092375 0.145333	5	13.072 16.340
-0.3564355E 02	0.15724006 03	U.1012293E		17.129	0.038236		19.608
0.5564897E 02	-0.18299165 03	0.1912602E		40.988	0.045360	7	22.876
0.5143999E 02	0.86437065 02	0.10058545		7.405	0.U23854	8	26.144
0.470060/E 02	0.4434885E 02	0.6462500E		4.815	0.015326	9	29.412
-0.7383463E 02	0.1181773E 03	0.1393464E		12.200	0.033047	10	32.680
ISEU NCITIZON ORS LA	3.75 LO	AD/IN USED	26100.00	05146	C 4/C 4M4 F		en courte
-0.1143490E 05			PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.4537205E 03	0.28683528 04	0.2904016E 0	98.989	98.989	1.000000	1	3.268
-0.1221153E 03	-0.3287280± 03	. 0.3500768E 0		124.811	0.120756	Ž	6.536
0.143094TE 03	0.3933096E 03	0.4185310E C		23.336	0.144121	3	9.804
0.1676121E 03	O.2381086E 03	U-2911863E C	3 54.857	13.714	0.100270	4	13.072
-0.5000198E 03	-0.61227205 03	0.7905042E		46.153	0.272211		16.340
-0.1493176E 03	-0.8132595E 00	0.14931985 0		30.052	0.051418	6	19.608
-0.1553176E 03	-0.2369291E 03	0.28330005 0		33.822	0.097555	7	22.876
0.2925726E 02 0.8994054E 02	-0.5544813E 01 -0.2437000E 02	0.2977805E 0		43.659 38.315	0.010254	- 8	26,144
0.4616003E 02	0.1525282E 01	0.4618523E		0.189	0-015904	10	29.412 32.680
					· ·	-:	
A DATE TO THE TOTAL TO PER	**************************************	is in a second second in the color.	en 42.000	··		and the second second	
EVERALL CYCLIC LOS			F CTR -15 FI	T 12.0	TR 11 3 FLAI	BEND	STA 43
EVERALL CYCLIC LOS	AD = 0.350249E 04		-30500•00	T 12.0	TR 11 3 FLAI	BEND	STA 43
ERO POSITION USE AJ	AD = 0.350249E 04			PSIJC	TR 11 3 FLAI) BEND	FREQUENCY
VERALL CYCLIC LOGERO POSITION USES AJ -0.1065263E 05	AD = 0.350249E 04 D 8.27 LU BJ	AD/IN USED	-30500•00 PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
AJ -0.1065263E 05 -0.5077275E 03	AD = 0.350249E 04 B.27 LU BJ 0.2152679E 04	AD/IN USED CJ 0.2211744E 0	-30500.00 PHIJC 04 103.271	PSI JC 103.271	XAML3\L3 000000	<u>.</u>	FREQUENCY
AJ -0.1065263E 05 -0.5077275E 03 0.8495984E 02	BJ 0.2152679E 04 -0.6656047E 03	CJ 0.2211744E 0	-30500.00 PHIJC 04 103.271 03 277.274	PSIJC 103.271 138.637	CJ/CJMAX 1.000000 0.303383	J i	FREQUENCY 3. 268 6. 536
AJ -0.1065263E 05 -0.5077275E 03	AD = 0.350249E 04 B.27 LU BJ 0.2152679E 04	0.2211744E 0 0.6710051E 0 0.510820dE 0	-30500.00 PHIJC 04 103.271 03 277.274 03 51.415	PSIJC 103-271 138-637 17-138	CJ/CJMAX 1.000000 0.303383 0.230958	<u>.</u>	FREQUENCY 3. 268 6. 536 9. 804
AJ -0.1065263E 05 -0.5077275E 03 0.8645984E 02 0.3185857E 03	BJ 0-2152679E 04 -0.656047E 03 0-3993008E 03	0.2211744E 0 0.6710051E 0 0.5108204E 0 0.4352551E 0	-30500.00 PHIJC 04 103.271 03 277.274 03 51.415 03 83.995	PSIJC 103.271 138.637	CJ/CJMAX 1.000000 0.303383	J 1 2 3	FREQUENCY 3.268 6.536 9.804 13.072
AJ -0.1065263E 05 -0.5077275E 03 0.8445984E 02 0.3185857E 03 0.4553038E 02	AD = 0.350249E 04 BJ 0.2152679E 04 -0.6656047E 03 0.39930U8E 03 0.4328672E 03	0.2211744E 0 0.6710051E 0 0.510820dE 0	-30500.00 PHIJC 14 103.271 277.274 3 51.415 3 83.995 3 240.709	PSIJC 103-271 138-637 17-138 20-999	CJ/CJMAX 1.000000 0.303383 0.230958 0.196793	J 1 2 3 4	FREQUENCY 3.268 6.536 9.804 13.072 16.340
AJ -0.1065263E 05 -0.5077275E 03 0.8645984E 02 0.3185857E 03 0.4553038E 02 -0.3401328E 03 0.1525325E 02 0.1274273E 02	BJ 0.2152679E 04 -0.6656047E 03 0.39930U8E 03 0.4328672E 03 -0.6063218E 03	CJ 0.2211744E 0 0.6710051E 0 0.5108204E 0 0.4352551E 0	-30500.00 PHIJC 14 103.271 277.274 3 51.415 3 83.995 3 240.709 3 277.616	PSI JC 103.271 138.637 17.138 20.999 48.142	CJ/CJMAX 1.000000 0.303383 0.230958 0.196793 0.314326	J 2 3 4 5	FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608
AJ -0-1065263E 05 -0.5077275E 03 0.8495984E 02 0.3185857E 03 0.4553038E 02 -0.3401328E 03 0.1525325E 02 0.1274273E 02 0.1017990E 03	AD = 0.350249E 04 BJ 0.2152679E 04 -0.6656047E 03 0.39930U8E 03 -0.4328672E 03 -0.6063218E 03 -0.1140702E 03 -0.1742924E 03 -0.1011704E 02	0.2211744E 0 0.6710051E 0 0.510820dE 0 0.4352551E 0 0.6952097E 0 0.1150855E 0 0.1747576E 0	-30500.00 PHIJC 04 103.271 03 277.274 03 51.415 03 83.995 03 240.709 03 277.616 03 274.181 03 354.324	PSIJC 103.271 138.637 17.138 20.999 48.142 46.269 39.169 44.290	CJ/CJMAX 1.000000 0.303383 0.230958 0.196793 0.314326 0.052034 0.079013 0.046253	J 1 2 3 4 5 6 7	FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608
AJ -0.1065263E 05 -0.5077275E 03 0.8495984E 02 0.3185857E 03 0.4553038E 02 -0.3401328E 03 0.152325E 02 0.1274273E 02	BJ 0-2152679E 04 -0.6656047E 03 0-39930U8E 03 0-4328672E 03 -0.6063218E 03 -0.1140702E 03 -0.1742924E 03	0.2211744E 0 0.6710051E 0 0.510820dE 0 0.4352551E 0 0.6952097E 0 0.1150855E 0 0.1747576E 0	-30500.00 PHIJC 14 103.271 277.274 3 51.415 3 83.995 3 240.709 3 277.616 3 274.181 3 354.324 2 351.241	PSIJC 103-271 138-637 17-138 20-999 48-142 46-269 39-109	CJ/CJMAX 1.000000 0.303383 0.230958 0.196793 0.314326 0.052034 0.079013	J 2 3 4 5	FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.603 22.876

Table III. (Continued)

_	TEST	12	4 -	12	(CONT)	NUFD)

-0.1995365E 04 0.8388174E 03 -0.8189661E 03 0.1172328E 04 315.685 315.685 1.000000 1 0.1617136E 03 0.4293279E 03 0.4587739E 03 69.360 34.680 0.391336 2 0.6674788E 02 0.2363804E 03 0.2456236E 03 74.232 24.744 0.209518 3	1.000000 1 3.268 0.391336 2 6.536
-0.1995365E 04 0.8388174E 03 -0.8189861E 03 0.1172328E 04 315.685 315.685 1.000000 1 0.1617136E 03 0.4293279E 03 0.4587739E 03 69.360 34.680 0.391336 2 0.6674788E 02 0.2363804E 03 0.2456236E 03 74.232 24.744 0.209518 3	1.000000 1 3.268 0.391336 2 6.536 0.209518 3 9.804
0.8388174E 03 -0.8189861E 03	0.391336 2 6.536 0.209518 3 9.804
0.1617136E 03	0.391336 2 6.536 0.209518 3 9.804
0.6674788E 02 0.2363804E 03 0.2456236E 03 74.232 24.744 0.209518 3	0.209518 3 9.804
_A 214066/E A2 A 64344626 A2 A 22122426 A2 146 AA7 41 463 A 190141 4	0.199141 4 13.072
-0.2149552E 03	
0.3639854E 03	0.377736 5 16.340
0.7712878E 02 -0.2101736E 02 0.7994107E 02 344.757 57.400 0.066190 6	0.066190 6 19.608
0.5761333E 02 0.7458630E 02 0.9424652E 02 52.316 7.474 0.080393 7	
-0.9950093E 01	D. J. 80393 7 22. 876

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 TOIT CTR 15 FLT 12.0 TR 34 2 CHORD BEND STA 21.

OVERALL CYCLIC LOAD = 0.348449E 04

ZERO POSTTION USED	3.12	LUAD/IN USED	-20600.00				
LA	BJ	CJ	PHIJC	PSIJC	XAMLD\LD	j	FREQUENCY
0.1029743E 05							
0.1044204E 04	0.1124514E C	0.1534569E	04 47-121	47.121	0.841533	1	3.268
-0.1060684E 04	0.1483343E 0	4 0.1823539E	04 125.568	62.784	1.000000	. 2	6.536
-0.3001790E.02	0.6755501E	2 0.7392395E	02 113.958	37.986	0.040539	3	9.804
0.1775825E 03	-0.2875405E 0	0.3379570E	03 301.699	75.425	0.185330	. 4	13.072
0.2454795E 03	-0.7828732E C	2 0.2576605E	03 342-312	68-462	0.141297	5	. 16.340
0.3616753E 01	0.2971680E 0	2 0.2993608E		13.843	0.016416	6	19.608
-0.1217524E 02	0.8856705E C	2 0.8939998E	02 97.827	13.975	0.049026	7 .	22.876
-0.2016676E 02	0.34662868 0	2 0.4010251E	02 120.191	15.024	0.021992	8	. 26.144
-0.2300647E 03	-0.9196104E C			22.421	0.135869	9	29.412
0.3571831E 02	-0.7837445E C	2 0.8612984E	02 294.500	29.450	0.047232	10	32.680

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 Y 017 CTR 15 FLT 12.0 TR 38 2 CHORD BEND STA 69 Overall Cyclic Load = 0.241341E 04

ZERO POSITION USED	1.25	LOAD/IN USED	16200.00				
LA	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX_		FREQUENCY
-0.3061221E 04							
0.35829648 03	0.77230328 0	3 0.8513687E 03	65.112	o5.112	0.935629	. 1	. 3.268
-0.4560264E 03	0.7874238E 0	0.90994298 03	120.077	60.038	1.000000	2	6.536
-0.6448268E 02	-0.6775376E (1 0.6483763E 02	185.998	61.999	U.071255	3	9. 804
0.1249656E 03	-0.1461212E (3 0.1922701E 03	310.538	77.634	0.211299	4	13.072
0.5001846E 02	-0.2020396E (0.2081390E 03	283.905	56.781	0.228738	´ 5 ·	16.340
0.7930544E 02	-0.3476332E (0.7936158E 02	357.490	59.582	0.087238	6	19.608
0.1260895E US	0.9455847E (2 0.95395428 02	82.405	11.772	0.104837	7	22.876
0.5621837E 02	-0.4310304c (1 0.5638336E 02	355.615	44.452	0.061964	8	26.144
-0. 2492937E 03	-0.1873462E (0.2998794E 03	183.582	20.398	0.329558		29.412
0-1342615E 02	-0.10848196 (0.1093096E 03	277.055	27.736	0.120128	10	32.680

Table III. (Continued)

TEST 12 H = 13					and the second s		
	MODEL CL8705 SH AD = 0.113090E 05		CTR 16 FL	LT 12.0	TR 6 1 FLA	P BEND S	STA 43
ZERO POSITION USE	0 · · · · · 9 · 52 · · · · · Lu	AD/IN USED	26500.00				
LA	8J	CJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.8180645E 04		0 100100/5 05					
-0.3306658E 04 0.1200697E 04	0.1019439E 05 -0.3115313E 03	0.1071726E 05 0.1240453E 04	137.971 345.455	107.971 172.727	1.000000	1 2	3.268 6.536
0.1120540E 03	0.5483291E 03	0.5596614E 03	78.450	26.150	0.052221		9.804
-0.1856760E 02	0.22246045 03	0.2232339E 03	94.771	23.693	0.020829	ž	13.072
-0.381/063E 03	-0.6594871E 03	0.7614861E 03	239.938	47.988	0.071099	Š	16.340
-0.4916243E 02	0.35366622 02	0.6038719E 02	144.500	24.083	0.005635	6	19.608
-0.3079274E 02	-0.27Jo396E 03	0.2723857E 03	263.509	37.644	0.025416	7	22.876
0.7357845E 02	0.26120125 02	U.7807716E 02	19.545	2.443	0.007285	- 8	26.144
J. 1020679E 03	-0.72715465 02	0.1253212E 03	324.533	36.059	0.011693	9	29.412
0.3861328E 01	0.5090652E 02	0.5111458E 02	85.668	8.567	0.004769	10	32.680
ZERO POSITION USE AJ	0 3.75 LO 8J	AD/IN USED	26100.00 PHIJC	PSIJC	. CJ/CJMAX		FREQUENCY
-0.9792145E 04					0070011111		TREGOLIGI
-0.1579468E U3	0.886558oE 04	0.886699ZE 04	91.021	91.021	1.000000	1	3.268
0.1078732E 04	-0.1123921E 04	0.1557838E 04	313.825_	156-912	0.175690		6.536
0.1696461E 03	0.3481914E 03	0.3873203E 03	64.024	21.341	0.043681	3	9.804
0.8834180E 02	0.2248771E 03	. 0.2416070E 03	68.553	17-138	0.027248	4	13.072
-0.6059434E 03	-0.1479935E 03	0.6237542E 03	193.725	38.7+5	0.070346	. 5	16.340
-0.1039926E 03 -0.7044313E 02	-0.45483066 02 -0.16430946 03	0.1135040E 03	203.623	33.937	0.012801	•	19.608
0.1259515E 03	-0.31806528 02	0.1787731E 03 0.1299055E 03	246.794 345.827	35.256 43.228	0.020162 0.014650	7 8	22-876 26-144
	0.59594508 02	0.6467032E 02	67.148	7.461		<u>=</u>	200144
						•	29.412
0.2511469E 02 0.3720886E 02	0.5921939E 02	0.69938786 02	57.858	5.786	0.007293 0.007888	9 10	
0.2511469E 02 0.3720886E 02 HARMONIC ANALYSIS		0.6993878E 02	57.858	5.736	0.007888	10	29.412 32.680
0.2511469E 02 0.3720886E 02 HARMONIC ANALYSIS	0.5921939E 02 MDDEL CL8705 SH AD = 0.856649E 04	0.6993878E 02	57.858	5.736	0.007888	10	32.680
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE	0.5921939E 02 MDDEL CL8705 SH AD = 0.856649E 04	0.6993878E 02	57.858	5.736	0.007888	10	32.680 STA 43
O.2511469E 02 0.3720886E 02 HARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04	0.5921939E 02 MJDEL CL8705 SH AD = 0.856689E 04 D 8.27 L0	0.6993878E 02 IP 33 T 017 AD/IN USED -	57.858 CTR . 16 Ft 30500.00 PHIJC	5.786 LT 12.0	0.007888 fr 11 3 FLA	P BEND	STA 43 FREQUENCY
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE	0.5921939E 02 MJDEL CL8705 SH AD = 0.856689E 04	0.6993878E 02	57.858 CTR · 16 Ft	5.786 LT 12.0 PSIJC 98.047	0.007888 TR 11 3 FLA CJ/CJMAX 1.000000	P SEND	32.680 STA 43 FREQUENCY 3.268
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04 -0.1176832E 04	0.5921939E 02 MJDEL CL8705 SA AD = 0.856689E 04 0 8.27 LC BJ 0.8324324E 04	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04	57.858 CTR 16 Ft 30500.00 PHIJC 98.047	5.786 LT 12.0	0.007888 fr 11 3 FLA	P BEND	32.680 STA 43 FREQUENCY
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04 -0.1176832E 04 0.1030771E 04	0.5921939E 02 MJDEL CL8705 SA AD = 0.856689E 04 0 8.27 L0 8J 0.8324324E 04 -0.5661558E 03	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04 0.1176019E 04	57.858 CTR 16 Ft 30500.00 PHIJC 98.047 331.222	5.736 LT 12.0 PSIJC 98.047 165.611	CJ/CJMAX 1.000000 0.139884	10 P 6END :	32.680 STA 43 FREQUENCY 3.268 6.536 9.804
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04 -0.1176832E 04 0.1030771E 04 0.1030771E 04	0.5921939E 02 MJDEL CL8705 SH AD = 0.856049E 04 D 8.27 LO 8J 0.8324324E 04 -0.5601558E 03 0.5683694E 03	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04 0.1176019E 04 0.5850334E 03	57.858 CTR . 16 Ft 30500.00 PHIJC 98.047 331.222 76.500	98.047 105.611 25.500	CJ/CJMAX 1.000000 0.139884 J.069588	10 P 6END :	32.680 STA 43 FREQUENCY 3.268 6.536
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04 -0.1176832E 04 0.1030771E 04 0.1365714E 03 0.4487000E 02	0.5921939E 02 MJDEL CL8705 SH AD = 0.856689E 04 0 8.27 L0 8J 0.8324324E 04 -0.5601558E 03 0.5888694E 03 0.3929648E 03	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04 0.1176019E 04 0.5850334E 03 0.3995178E 03	57.858 CTR . 16 Ft 30500.00 PHIJC 98.047 331.222 76.500 83.486	98.047 105.611 25.500 20.471	CJ/CJMAX 1.000000 0.139884 0.047046	J 1 2 3 4	32.680 FREQUENCY 3.268 6.536 9.804 13.072
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04 0.1030771E 04 0.1030771E 04 0.1365718E 03 0.4487000E 02 -0.3747224E 03 -0.4701338E 00 -0.3035558E 02	0.5921939E 02 MJDEL CL8705 SH AD = 0.856049E 04 0 8.27 L0 8J 0.8324324E 04 -0.5661558E 03 0.5888694E 03 -0.508751E 03 -0.5851637E 03 -0.5851637E J2 -0.86999950E 02	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04 0.51176019E 04 0.5850334E 03 0.3995176E 03 0.7596318E 03 0.75962020E 02 0.9214328E 02	57.858 CTR . 16 Ft 30500.00 PHIJC 98.047 331.222 70.500 83.486 240.443 270.656 250.765	98.047 105.611 25.500 20.671 48.089	CJ/CJMAX 1.000000 0.139884 J.069588 0.047046 0.090356	J 1 2 3 4 5	32.680 FREQUENCY 3.268 6.536 9.804 13.072 16.340
0.2511469E 02 0.3720886E 02 MARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.8633801E 04 -0.1176832E 04 0.1030771E 04 0.1365718E 03 0.4487000E 02 -0.3747224E 03 0.67013558E 02 -0.37679068E 02	0.5921939E 02 MJDEL CL8705 Sr AD = 0.856689E 04 0.8324324E 04 -0.5661558E 03 0.392964E 03 -0.660751E 03 -0.5851637E 02 -0.1839366E 02	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04 0.1176019E 04 0.585034E 03 0.3995178E 03 0.7996318E 03 0.7996318E 02 0.9214324E 02 0.7896283E 02	57.858 CTR 16 Ft 30500.00 PHIJC 98.047 331.222 70.500 83.486 240.443 270.656 250.765 13.470	PSIJC 98.047 105.611 25.500 20.871 48.089 45.109 35.824 1.084	CJ/CJMAX 1.000000 0.139884 0.049588 0.047046 0.090350 0.005961 0.010560 0.009392	J 1 2 3 4 5 6 7 8	32.680 FREQUENCY 3.268 6.536 9.807 13.072 16.340 17.608 22.876 26.144
0.2511469E 02 0.3720886E 02 HARMONIC ANALYSIS OVERALL CYCLIC LO ZERO POSITION USE AJ -0.863380IE 04 -0.1176832E 04 0.1030771E 04 0.1030771E 03 0.4487000E 02 -0.3747224E 03 -0.4701338E 00 -0.3035558E 02	0.5921939E 02 MJDEL CL8705 SH AD = 0.856049E 04 0 8.27 L0 8J 0.8324324E 04 -0.5661558E 03 0.5888694E 03 -0.508751E 03 -0.5851637E 03 -0.5851637E J2 -0.86999950E 02	0.6993878E 02 IP 33 T 017 AD/IN USED - CJ 0.8407098E 04 0.51176019E 04 0.5850334E 03 0.3995176E 03 0.7596318E 03 0.75962020E 02 0.9214328E 02	57.858 CTR 16 Ft 30500.00 PHIJC 98.047 331.222 70.500 83.486 240.443 270.656 250.765 13.470	PSIJC 98.047 105.611 25.500 20.471 48.089 45.109 35.824	CJ/CJMAX 1.000000 0.139884 0.069568 0.047046 0.09056 0.00961	J 1 2 3 4 5 6 7	32.680 FREQUENCY 3.268 6.536 9.804 13.072 16.340 19.608 22.876

Table III. (Continued)

rest 12 N = 13	(CONTINUED)				•		•.
ARMONIC ANALYSTS			CTR 16 FL	T 12.0	TR 41 2 FLA	P BEND S	TA 118
OVERALL CYCLIC LOA	4D = 0.151513E 0	•	•	•	: :		
ERO POSITION USEC	D- 10.39 [DAC/IN USED -	14150-00			<u>`</u>	
LA	BJ	CJ	PHIJC	PSŁJĊ	CJ/CJMAX_		FREQUENCY
-0.1710005E 04							
0.8549321E 03	0.1818813E 03	0.87406498 03	12.010	12.010	1.000000	i	3. 268
0.6729229E 03	0.82458602 02	0.6779561E 03	6.986	3.493	0.775636		6.536
0.9763519E 02 -0.4935920± 03	0.2399129E 03 0.8383751E 02	0.2590188E 03 0.5006614E 03	67.856 170.360	22.618	0.296338 0.572797	· 3	9.804 13.072
0.39476225 03	0.8383751E 02	0.50066146 03	13.420	42.590 2.684	0.572797	5	16.340
0.5384606E 02	0.22644966 02	0.5846190E 02	22.78	3.778	0.066885	6	19.608
0.6057709E 02	0.7911534E 02	0.9564345E 02	52.559	7.508	0.114000	7	22.876
0-1838670E 01	0.54441898 02	0.5447293E 02	88.066	11.008	0.002321	ě	26.144
-0. 3036403E 02	0. 5940811E 02	0.6953714E 02	121.535	13.504	0.079556	9	29.412
0.6956169E 01	0.2879079E 02	0.2953174E 02	76.376	7.638	0.033787	10	32.680
ERO POSITION USED	AD = 0.556238E 0		20600.00	-			• •
A.J	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0. 1002269E 05							
0.7955059E 03	-0-1012928E 04		51.856	51.856	0.341222	1	3.268
-0.2274741E 04	0.3012120E 04	0.3774561E 04	127.060	63.530	1.000000	2	6.536
0.2091094E 03	0.3624961E 03	0.4184854E 03	60.021	20.307	0.110870	. 3	9.804
0.5278254E 03 0.3134275E 03	-0.2519198E 01	0.5278313E 03	359.726	89.932	0.139839.	•	13.072
0.8679785E 02	-0.1726057E 03	0.3579084E 03 0.1300466E 03	331.130 48.130	8.022	0.094821	<u>5.</u>	16.340
0.5929601E 02	0.7816124E 02	0.4510606E 02	52.815	7.545		. ,	22.876
0.4440+30E 01	0.9333964E 02	0.9344539E 02	87.276	10.910	0.024757	8	20.144
-0.1347017E 03	0.7764575E 04	0.1554680E 03	150.046	16.672	0.041188	9	29.412
-0.4229469E 02	0.2174544E 02	0.4755739E 02	152.790	15.279	0.012599	10	32.680
							
ARMONIC ANALYSIS VERALL CYCLIC LOA	MODEL CL8705 S	HIP 33 T 017	CTR · 16 FL	T 12.0	TR 38 2 CHU	RU BEND	STA 69
ERO POSITION USED) 1.25 L	UAD/IN USED	16200.00				
AJ	BJ j	C1 .	PHIJC_	PSIJC	XAMLD\LO		FREQUENCY
-0.3050609E 0+							
0.20889516 03	0.7964048E 03	0.82334558 03	75.302	75.302	0.395536	1	3.268
-0.10301465_04	0.18088195 04	0.20015932 04	119.662	59.831	1.000000	2	6.536
0. 2241872E 03	0.2571667E 03	0.3-116658 03	48.919	16.306	0.163897		9.804
	0.79439398 02	0.5599182E 03	8.150	2.039	0.268985	4	13.072
0.55425448 03			221		49 4 49 5 5 5 5	_	• · · ·
0.15559282 03	-0.2262726E 03	0.2746060E 03	304.51+	60.903	0.131921	5	16.340
0.15559282 03 0.1914316E 03	-0.2262726E 03 0.8033626E 02	0.2746060E 03 0.2076061E 03	22.766	3.794	0.099734	6	19.608
0.15559282 03 0.19143162 03 0.15916902 02	-0.2262726E 03 0.8033626E 02 0.1688232E 03	0.2746060E 03 0.2076061E 03 0.1695719E 03	22.766 84.614	3.794 12.088	0.099734	· 7	19.608 22.876
0.15559282 03 0.1914316E 03	-0.2262726E 03 0.8033626E 02	0.2746060E 03 0.2076061E 03	22.766	3.794	0.099734	6	19.608

Table III. (Continued)

TEST 12 N = 14 HARMONIC ANALYSIS							
HARRONIC ANALYSIS							
	MODEL CL8705 S	HIP 33 T 017	CTR 17 FL	T 12.0	TR 6 1 FLA	P BEND	STA 43
OVERALL CYCLIC LOA	D = 0.147634E 0	5 .					
ZERO POSITION USED	9.52 L	OAD/IN USED -	26500.00				
AJ	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.6376328E 04	0.1459169E 05	0.1498#18E Q5	103 300	103.208	1.000000	1	3.279
-0.3424651E 04 0.1580135E 04	0.1459169E 05	0.15d0142E 04	103.208 0.176	0.088	0.105426	ž	6.557
-0.3782921E 02	0.43835136 03	0.4399805E 03	94.932	31.644	0.029355	3	9.836
-0.6516721E 02	0.2624852E U3	0.2732595E 03	103.953	25.988	0.018032		13.115
0.28045438 03	-0.7079187E 03	0.7614462E 03	291.612	58.322	0.050803	5	16.393
-0.1167691E 03	-0.1032610E 03	0.21730076 03	237.496	39.583	0.01+478		19.672
0. 1045404E 03	-0.2078029E 02	0.1065857E 03	348.757	49.822	0.007111	7	22.951
0.1209136E 02	0.52052196 02	0.5343011E 02	76.922	9.615	0.003565	8	26.230
0.15848602 03	0.5993077E 02	0.1694388E 03	20.714	2.302	J.011305	9	29.508
0.2124837E 02	-U. 1600726E 02	0.2660310E 02	323.008	32.301	0.001775	10	32.787
HARMONIC ANALYSIS OVERALL CYCLIC LOA	D = 0.132849E 0		26100.00				
LA	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.8710891E 04							
0.966d281E 03	0.1272183E 05	0.1275851E 05	85.654	85.654	1.000000	1	3.279
0.1350338E 04	-0.14670652 04	0.2038675E 04	312.241	<u> </u>	0.157438	2	6.557
0.1570660E 03	0.1647996E 03	0.2276590E 03	46.376	15.459	0.017844	3	9.836
-0.9163487E 02 -0.5840570E 02	0.2886650E 03	U. 3028604E 03	107.612	26.903	0.023738	4	13.115
	-0.4035583E 03	0.4077627£ 03	261.765	52.353	0.031960	5	16.393
-0.1238636E 03 -0.2437857E 02	-0.1212979E 03 -0.1098760E 03	U. 1733648E 03	224.400	37.400	0.013588	6	19.672
0.6922200E 02	0.1872742E 02	0.1125479E 03 0.7171053E 02	257.490	36.784	0.008821	7	22.951
0.25332036 02	0.1025106E 03	0.1055942E 03	15.138	1.892	0.005621	<u> 8 </u>	26.230_
-0.2056696E 02	-0.5403580E 02	0.5781754E 02	76.119 249.162	8.458 24.916	0.008276 0.004532	10 8	29.508 32.787
		 .					
		HIP 33 T 017					STA 43
			CTR . 17 FL	.T 12.0	TR 11 3 FLA	P BEND	•••
OVERALL CYCLIC LOA	D = 0.123060E 0	5	30500.00	.T 12.0	TR 11 3 FLAI	PEND	
OVERALL CYCLIC LOA Zero pustition used Aj	D = 0.123060E 0	5	•	0.51 T.	TR 11 3 FLAM	J SEND	FREQUENCY
OVERALL CYCLIC LOA ZERO PUSTTION USED AJ -0-7297426E 04	D = 0.123060E 0	5 UAD/IN USED - CJ	30500.00 PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
OVERALL CYCLIC LOA ZERO PUSTTION USED AJ -0.7297428E 04 -0.1000039E 04	0.123060E 0 6.27 8J 0.1222838E 05	5 UAD/IN USED - CJ 0.1226920E 05	30500.00 PHIJC 94.675	PSTJC 94.675	CJ/CJMAX 1.000000	J 1	FREQUENCY
OVERALL CYCLIC LOA ZERO PUSITION USED AJ -0.7297426E 04 -0.1000039E 04 0.1329882E 04	0.123060E 0 6.27 BJ 0.1222838E 05 -0.8920413E 03	0.1226920E 05 0.1601350E 04	30500.00 PHIJC 94.675 326.147	PSIJC 94.675 163.074	CJ/CJMAX 1.000000 0.130518	J 1 2	FREQUENCY 3.279 6.557
OVERALL CYCLIC LOA ZERO PUSTTION USED AJ -0.7297426E 04 -0.1000039E 04 0.1329882E 04 0.1561162E 03	0.122030E 05 0.122030E 05 0.1222030E 05 0.8920413E 03	0.1226920E 05 0.1601350E 04 0.4482539E 03	30500.00 PHIJC 94.675 326.147 69.618	PSIJC 94.675 163.074 23.206	CJ/CJMAX 1.000000 0.130518 0.035535	J 1 2 3	FREQUENCY 3.279 6.557 9.836
AJ -0.7297426E 04 -0.1000039E 04 0.1329882E 04 0.156162E 03 0.1594683E 03	0.122030E 05 0.1222030E 05 0.1222030E 05 -0.8920413E 03 0.4.01897E 03 0.5284458c 03	0.1226920E 05 0.1601350E 04 0.4482539E 03 0.5519829E 03	30500.00 PHIJC 94.675 326.147 69.618 73.208	PSTJC 94.675 163.074 23.206 18.302	CJ/CJMAX 1.000000 0.130518 0.036535 0.044989	J 1 2 3 4	FREQUENCY 3.279 6.557 9.836 13.115
AJ -0.7297426E D4 -0.1000039E 04 0.1329882E 04 0.1546162E 03 0.7033365E 02	0.123060E 0 6.27 8J 0.1222838E 05 -0.8920413E 03 0.4201897E 03 0.5284458E 03 -0.4916006E 03	CJ 0.1226920E 05 0.1601350E 04 0.4482539E 03 0.5519829E 03 0.4966064E 03	30500.00 PHIJC 94.675 326.147 09.618 73.208 278.142	PSIJC 94.675 163.074 23.206 18.302 55.628	CJ/CJMAX 1.000000 0.130518 0.036535 0.044989 0.040476	J 1 2 3 4 5	FREQUENCY 3.279 6.557 9.836 13.115 16.393
AJ -0.7297426E 04 -0.1000039E 04 0.1329882E 04 0.1561102E 03 0.7033365E 02 -0.1006681E 03	0.123060E 0 6.27 BJ 0.122838E 05 -0.8920413E 03 0.4.01897E 03 0.528458E 03 -0.4916006E 03	CJ 0.1226920E 05 0.1601350E 04 0.4482539E 03 0.5519829E 03 0.4966004E 03 0.1749637E 03	30500.00 PHIJC 94.675 326.147 69.618 73.208 278.142 234.867	PSIJC 94.675 163.074 23.206 18.302 55.628 39.144	CJ/CJMAX 1.000000 0.130518 0.036535 0.044989 0.040476 0.014260	J 2 3 4 5	FREQUENCY 3.279 6.557 9.836 13.115 16.393 19.672
AJ -0.7297426E 04 -0.1000039E 04 0.1329882E 04 0.1561162E 03 0.1594683E 03 0.7033365E 02 -0.1006681E 03 0.9309180E 02	0.122030E 0 6.27 BJ 0.1222030E 05 -0.8920413E 03 0.4.01697E 03 0.52844586 03 -0.4916006E 03 -0.130001E 03 -0.2461328E 02	0.1226920E 05 0.1601350E 04 0.4482539E 03 0.5519829E 03 0.496604E 03 0.1749637E 03 0.9629068E 02	30500.00 PHIJC 94.675 326.147 09.618 73.208 278.142 234.807 345.150	PSIJC 94.675 163.074 23.206 18.302 55.628 39.144 49.313	CJ/CJMAX 1.000000 0.130518 0.035535 0.044989 0.040476 0.014260 0.007848	J 1 2 3 4 5 6	FREQUENCY 3.279 6.557 9.836 13.115 16.393 19.672 22.951
-0.7297426E 04 -0.1000039E 04 0.1329882E 04 0.1561162E 03 0.1594683E 03 0.7033365E 02 -0.1006681E 03	0.123060E 0 6.27 BJ 0.122838E 05 -0.8920413E 03 0.4.01897E 03 0.528458E 03 -0.4916006E 03	CJ 0.1226920E 05 0.1601350E 04 0.4482539E 03 0.5519829E 03 0.4966004E 03 0.1749637E 03	30500.00 PHIJC 94.675 326.147 69.618 73.208 278.142 234.867	PSIJC 94.675 163.074 23.206 18.302 55.628 39.144	CJ/CJMAX 1.000000 0.130518 0.036535 0.044989 0.040476 0.014260	J 2 3 4 5	FREQUENCY 3.279 6.557 9.836 13.115 16.393 19.672

Table III. (Continued)

			•							
TEST 12 H = 14	(CONTINUED)						·			
			· · · ·	·				• • • • • • • • • • • • • • • • • • • •		
HARMONIC ANALYSIS P OVERALL CYCLIC LOAD			33 T 01	7 CYR	17 FL	T 12.0	TR 41	2 FLAP	BEND STA	118
ZERO POSITION USED	0.39	LUAD/IN	USED	-1415	0.00					
AJ	BJ		CJ	P	HIJC	DLIZA	CJ/CJ	MAX	J	FREQUENCY
-0.1642150E 04										
0.1143555E 04	0.7905481E		390210E (4.656	34.656	1.000		1	3.279
0.6619150E 03	-0.3594147E		628401E_		6.892	178.446	0.476		2	6.557
-0.1862946E 02	0.1765678E		715677E		6.022	32.007	0.127		3	9.836
-0.7590400E 03	0.2532241E		59044ZE		9.809	44. 952	0.545		4	13.115
0.1376189E 03	0.373960/E		98479JE (9 . 196	13.959	0.286		5	16.393
0.9998212E 02	0.6254427E		179331E		2.028	5.338	0.084		6	19.672
0.5176590E 02	0.7237683E		896376E		4.427	7.775	0.064		7	22.951
-0.5429565E 01	_0.3235452E		200693E_		9.526	12.441	0.023		88	26.230
-0.5353316E 02	-0.3262742E		363249E		3.488	20.388	0.038		9	29.508
-0.4962911E 01	0.1316620E		407051E	02 11	3.654	11.065	0.010		10	32.787
HARMONIC ANALYSIS M OVERALL CYCLIC LOAD			33 T 01	7 CTR	17 FL	T 12.0	TR 34	2 CHOR	D BEND ST	1 21.
LERO POSITION USED	3,12		USED	-2060	0.00	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	•
LA	BJ.	٠	CJ	٥	HIJC	OL 129	CJ/CJ	MA W		FREQUENCY
0.9943258E 04						73130	<u> </u>	man.		NE HOLIVE
0.1113858E 04	0.1298612E	04 0.1	710869E 1	06 4	9.379	49.379	0.317	1064	1	3.279
-0.2957384E 04	0.4495496E		381039E		3.339	61.670	1.000		2	6.557
0.5534071E 01	0.6770857E		771084E		9.532	29.844	0.125		- 1	9.836
0.7554404E 03	0.2702961E		023403E		9.687	4.922	0.149		7	13.115
0.4373674E 03	-0.3603792E		388490E		5.290	71.058	0.081		5	16.393
0.1152276E 03	0.1355306E		778976E		9.630	8.272	0.033		6	19.672
0.4121115E 02	0.131d725E		3816198		2.646	10.378	0.025		ĭ	22.951
-0.1294384E 03	0.25591806		319440E		8.816	21.102	0.024		å	26.230
-0.3193623E 03	0.6771082E		204614E		8.029	18.670	0.060		9	29.508
0.2565479E 02	0.1208094E		235034E		8.011	7.801	0.022		10	32.781
										· ,
						•				
			33 T 01	TCTR	17 FL	12.0	TR 38	2 CHOR	D BEND ST	4 69
OVERALL CYCLIC LOAD	0.482681	LE 04	USED		17 FL	12.0	YR 38	2 CHOR	D BEND ST	. 69
OVERALL CYCLIC LOAD LERO POSITION USED AJ	0.482681	LE 04		1620		PSIJC	CJ/CJ			-
DVERALL CYCLIC LOAD LERO POSITION USED AJ -0.3160533E 04	1.25 BJ	LUAD/IN	CJ	1620 P	H1JC	PSIJC	CIVCI	MAX		FREQUENCY
DVERALL CYCLIC LOAD LERO POSITION USED AJ -0.3160533E 04 0.3036519E 03	0.482681 1.25 BJ 0.7839714E	LUAD/IN 03 0.8	USED CJ 407234E (1620 P	0.00 HIJC	PSIJC 68.827	CJ/CJ 0.274	MAX 602		FREQUENCY 3. 279
DVERALL CYCLIC LOAD ZERO POSTVION USED AJ -0.3160533E 04 0.3036519E 03 -0.1428834E 04	0.482681 1.25 BJ 0.7839714E 0.27077366	UAD/IN 03 0.8 04 0.3	USED CJ 407234E (1620 P 03 6	0.00 HIJC 8.827 7.820	PSIJC 68.827 58.910	0.274 1.000	MA X	J 1 2	FREQUENCY 3. 279 6.557
AJ -0.3160533E 04 0.3036519E 03 -0.1428834E 04 0.1029865E 03	0.482681 1.25 BJ 0.7839714E 0.27077366 0.418955E	UAD/IN 03 0.8 04 0.3 03 0.4	USED CJ 407234E (061603E (314280E (1620 P 03 6 04 11	0.00 HIJC 8.827 7.820	PSIJC 68.827 58.910 25.396	0.274 1.000 0.140	602 000		3. 279 6. 557 9. 836
AJ -0.3160533E 04 0.3036519E 03 -0.1428838E 04 0.102985E 03 0.7262612E 03	0.482681 1.25 BJ 0.7839714E 0.2707736E 0.4189558E 0.2155141E	03 0.8 04 0.3 03 0.7	USED CJ 407234E (061603E (314280E (575645E (1620 P 03 6 04 11 03 7	0.00 HIJC 8.827 7.820 6.189 6.528	PSIJC 68.827 58.910 25.396 4.132	CJ/CJ 0.274 1.000 0.140 0.247	602 000 916	1 2 3	3. 279 6. 557 9. 836 13. 115
OVERALL CYCLIC LOAD ZERO POSITION USED AJ -0.3160533E 04 0.3036519E 03 -0.1428838E 04 0.1029865E 03 0.7262612E 03 0.3400410E 03	0.482681 1.25 BJ 0.7839714E 0.2707736E 0.4189558E 0.215191E -0.9388129E	03 0.8 04 0.3 03 0.4 03 0.4 03 0.7	USED CJ 407234E (061603E (514280E (575645E (527627E (1620 P 03 6 04 11 03 7 03 1 03 34	8.827 7.820 6.189 6.528	PSIJC 68.827 58.910 25.396 4.132 68.913	CJ/CJ 0-274 1-000 0-140 0-247 0-115	MAX 602 000 916 440	1 2 3 4 5	3. 279 6. 557 9. 836 13. 115 16. 393
AJ -0.3160533E 04 0.3036519E 03 -0.1428838E 04 0.1029855E 03 0.7265012E 03 0.3400410E 03 0.1074236E 03	0.482681 BJ 0.7839714E 0.27077366 0.4189558E 0.2155141E -0.9388129E 0.1409874E	03 0.8 04 0.3 03 0.4 03 0.4 03 0.7 02 0.3	USED CJ 407234E (061603E (314280E (527627E (527627E (772492E (1620 P 03 6 04 11 03 7 03 1 03 34	0.00 HIJC 8.827 7.820 6.189 6.586 4.566 2.695	PSIJC 68.827 58.910 25.396 4.132 68.913 8.782	CJ/CJ 0-274 1-000 0-140 0-247 0-115 0-057	602 000 916 440 222 894	J 1 2 3 4 5	3. 279 6. 557 9. 836 13. 115 16. 393
-0.3160533E 04 0.3036519E 03 -0.1428838E 04 0.102985E 03 0.7262012E 03 0.3400410E 03 0.1074236E 03 -0.9688931E 01	0.482681 1.25 BJ 0.7839714E 0.2707736E 0.418955E 0.2155191E -0.9388129E 0.149874E 0.6336957E	03 0.8 04 0.3 03 0.4 03 0.7 02 0.3 03 0.7 02 0.3	USED CJ 407234E (061603E (314280E (575645E (5772492E (410596E (PO3 6 04 11 03 7 03 1 03 3 4 03 5 02 9	0.00 HIJC 8.827 7.820 6.189 6.528 4.586 2.695 8.693	PSIJC 68.827 58.910 25.396 4.132 68.913 8.782 14.099	CJ/CJ 0.274 1.000 0.140 0.247 0.115 0.057	MAX 602 000 916 440 222 894	1 2 3 4 5	3. 279 6. 557 9. 836 13. 115 16. 393 19. 672 22. 951
AJ -0.3160533E 04 0.3036519E 03 -0.1428838E 04 0.1029855E 03 0.7265012E 03 0.3400410E 03 0.1074236E 03	0.482681 BJ 0.7839714E 0.27077366 0.4189558E 0.2155141E -0.9388129E 0.1409874E	03 0.8 04 0.3 03 0.4 03 0.4 03 0.7 02 0.3 03 0.1 02 0.6 03 0.6	USED CJ 407234E (061603E (314280E (527627E (527627E (772492E (1620 P 03 6 04 11 03 7 03 1 03 34 03 5 03 5 02 9 03 11	0.00 HIJC 8.827 7.820 6.189 6.586 4.566 2.695	PSIJC 68.827 58.910 25.396 4.132 68.913 8.782	CJ/CJ 0-274 1-000 0-140 0-247 0-115 0-057	MAX 602 000 916 440 222 894 939 165	J 1 2 3 4 5	3. 279 6. 557 9. 836 13. 115 16. 393 19. 672 22. 951 29. 508

Table III. (Continued)

TEST	11	W .	1

HARMONIC ANALYS					33	010	16	13.) TR	6 1	FLAP	BEND ST	45
ZERO POSITION U		9.51		-3/IN	USED		-41459.00	(FACTOR	THESE	HUMBER	S BY	0.638)	
AJ		. j			CJ		PHIJC	PSIJ	С	CJ/CJMA	x	٠,	PREJUENCY
-0.1308824F 0	5												
-0.27958286 0	4 0.	2727302E	04	.0.36	898571	E 04	4 135.608	135.6	J 8	1.00000	0	. .	2.519
-0.3633736F 0	3 0.	244833BE	03	0.4	381599	5 0	3 146.029	73.0	14	0.11238	3	4	ەد0.خ
0.5786 EJOE U	. 0	5721680E	03	0.8	376845	÷ 3	3 40.133	13.3	75	0.22769	4	3	7.557
3.93695135 0	2 - 3.	55803026	02	J. 1	11143:	٤)	3 327.44+	61.9	52	0.02350	ŷ	•	10.076
-0.2648335C G	3 .).	20939168	ذ٥	0.3	379939	ں ۽,	3 216.412	+3.6	÷2	C.03669	4	· · · · · · · · · · · · · · · · · · ·	12.594
0.8111365E C		4424392E	03	0.9	23955:	.)	3 331.33,	55.2	32	0.23659	7.	6	15.11:
0.12937235		\$177344E		0.9	258393	د غا	3 91.975			0.23772	7	7	17.03
-0.20701÷05 0		6535277E			355335					C.01758	4	•	20.15
0.56374248 0		355 7746E			666202					0.31709		ÿ	22.07
U.1333629E 0		262 42 94E			822351					0.03723		Lú	25.10

HARMONIC AVALYSIS MODEL CL8705 SHIP 33 T 010 CTR 16 FLT 13.0 TR 31 2 FLAP BEND STA 43 DV ERALL CYCLIC LOAD = C. 241155E 04

VERO POSITION	USED	3.75	LCAD/IN	USED		25900.00				
AJ		ы		· cu		PHIJC	PSIJC	CJ/CJMAX	j	FREQUENCY
-0.8981617E	04									
-0.1028918E	03	-0.3421287E	O3 C.3	5726555	33	253.202	253.252	0.306775	ı.	2.519
-0.1383574E	04	-0.4257441E	0.1	164584E	04	231.443	100.722	1.000000	4	5.038
0.3955071E	03	0.2477183E	03 0.4	6667998	03	32.060	10.687	0.400727	3	7.557
-0.6424684E	02	0.2277067E	02 0.5	816281E	20	160.45+	40.121	0.058530	4	10.076
-0.4922531E	02	-0.2541774E	0.5	540430E	02	237.303	41.452	0.047574	5	12.594
0.75556525	03	-0.16497455	0.7 د د	733662E	33	347.633	57.947	C.664C7J	0	15.143
-0.17932458	03	J.72J4272E	03 2.7	424102E	03	133.978	14.854	0.637489	7	11.032
-0.22032836	03	0.6C13216E	02 0.2	283871E	03	154.735	20.592	C.196110	병	20.151
-0.4493	02	-0.1(97385E	0.1	186300E	03	247.739	27.527	0.101865	9	24.670
-0.8702148F	01	-J.8159593E	0.0	215907E	02	263.920	26.392	C.070548	10	25.189

HARMONIC ANALYSIS MODEL CL9705 SHIP 33 T 010 CTR 16 FLT 13.0 TR 11 3 FLAP BEIND STA 43 DV ERALL CYCLIC LDAD = G. 212290E C4

ZERO POSITIUN I	nzen	9.27		COOVIN ARED	-	30403.00				
AJ		Р		cJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.8886121E (-0.8744790E	03	0.9553379E	03	273.743	293.743	0.908262	ı	2.519
-0.8969543E		-0.5493918E		0.105183JE	04	211.487	105.744	1.000000	·· 2	2.038
0.3356859E (0.3395703E 0.1046113E				41.273 3.090	13.759	0.487920 0.184504	خ	7.557
-0.1338751F		-0.1700223E				222.758	44.552	0.238094		12.594
0.52874246		0.4328993E		0.5289500E		0.469	0.378	0.502695	0	15.113
0.5320572F (-0.1029275E (0.5542627E				94.517 144.434	12.374	0.529373 C.120298	. 7	17.032
-0.9997270E	20	-0.48509228	02	0.11112018	J 3	235.884	22.876	0.105645	ÿ	22.070
-0.6651703£ (02	-0.671EJBBE	02	0.9453984E	02	225.234	22.528	C.389881	_ 40	

Table III. (Continued)

TEST 13 N = 1	(CONTINUED)							v. 11
HARMONIC ANALYSIS	40DEL CL8705	SHIP 33	T 010	CTR 16 FL	T 13.0	TR 41 2 FLAI	BEND SI	TA 118
TV ERALL CYCLIC LD			, ,					
ZERO POSITION USE	0.19	LCAD/IN U						
AJ	BJ.		. J	PHÌ JC	OLI24	CJ/CJPAX	J	FREJUENCY
-0.2157001E 04 0.6800452E 03	-0.1C80838E	04 0-1276	978E 04	302.177	302.177	1.000000		2.519
-0.4057 908E 03	0.33637525		9115 03	140.343	70.172	0.412757	2	5.038
0.1457516E 03	0.26E8247E	03 323.053	1944E 03	51.534	20.511	0.235467	ذ	7.557
-0.3450718E 03	-0.2831174F	03 0.4463	5195 03	219.357	54.842	0.349538	₩ .	10.076
-0.2338017E 02	0.139U23ZE	03 0.1409	9754E 03	99.546	19.909	C_11039M	•	12.594
-0.4393458E 03	0.11564716)625£ 03	154.837	27.481	0.356375 C.332304	6	15.113
0.2135715E 02	-0.4238071E		450£ 03	272.855	38.964	C.332304	7	17.032
0.1167290E G3	-0.3633241E		527E 93	342.711	42.839	0.075736	8	20.151
0.6337609F 02	0.18103816		110E 02	15.942	1.771	0.051615		22.070
0.2308496E 02	0.3823907E	02 0.440	5701E 02	58.881	5.888	0.034579	TO.	25.189
				•		•		•
							-	
HARMONIC ANALYSIS Dverall cyclic Lo	MODEL CL8705	SHIP 33	T 010	CTR 16 FL	T 13.0	TR 34 2 CHOP	ED BEND S	iTA zļ.
						1		••
ZERO POSITION USE				20300.00				
0.6522574E 04	BJ	· · · · · c	J .	PHI JC	DLISA	CJ/CJMAX	J	FREQUENCY
0.7225210E 03	0.5C57700E	0.8819	524E 03	34.992	34.992	0.446470	l	2.519
0.1650806F 04	-0.1084895E		388 E 04	326 - 687	163.344	1.000000		
O.8018835E 02	-0.7666189E		0136 03	275.971	91.990		ذ	7.557
-0.1167936E 04	0.5482673E.		221E 04	154.853	38.713		4	10.076
-0.4520432E 02	-0.26139728	02 " 0.5221	745E 32	210.038	.42.008	C.026434	5	14.244
-0.2152224E 03	0.94485618	01 0.2154	297E 03	177.486	29.531	G.109057	6 .	15.113
0.1423006E 03	-0.3554131E	0.3828	418E 03	291.820	41.089	0.193806	7	17.032
`~O.9508354E"01	-0.3647514E	0.3 769	409E 02	255.389	31.924	0.019082	8	20.151
-0.2940245E 02	0.2787456E		537ē 02	136.528	15.170	C.020510		22.670
-0.2897385E 02	0.597329eE	02 0.6638	907E 02	115.876	11.598	0.033608	10	25.189
								•
MARMONIC ANALYSIS Overall cyclic Lo.		SHIP 33 E C4	T 010	CTR 15 FL	T 13.0	TR 38 2 CHO	D BEND S	to Al
ERO POSITION USE	1.15	LCAD/IN US	ED	16200.00	,			
AJ	вл		J	PHIJC	PSIJC	CJ/CJMAX		FREJUENCY
0.5528107E 02								•
0.2613540E 03	0 .445 ZL 78E			59.586	59.586	0.396013	. 1	2.519
0.1010426E 04	-0.8237261E		643E .04	320.812	160.436		2	5.038
0.3640120E 02	-0.44575988			274.668	91.556	0.343072	3	7.557
-0.7883643E 03	0.5193970E		623E 03	1+0.622	_ 36.555	0.724188	* .	10.076_
-0.2924215F 02	~-0.1110417E~		275= 03	255.246		0.088682	5	12.594
-0.4320915E 02 0.1231271E 03	0.4437895E		957E UZ		22.372	0.047513	<u>o</u> ,	15.113
U. 1/11/VIP ()3	-U.223549UE		155E 03		42.692	0.195771	7	17.632
0.8687947E 01	-0.914U114E		310E 02	275.430	34.429	0.070428	d	50:151
	-0.9140114E 0.7165486E 0.560C676E	02 J.75 <i>02</i>	310E 02 256E 02 553E 02	275.430 71.160 117.543	34.429 7.907 11.754	0.070428 0.058239 C.048453	10 8 9	22.670 22.670 25.189

Table III. (Continued)

TEST 13 N = 2					-	
1691 13 # - 2	·			·	· · · · · · · · · · · · · · · · · · ·	
MARMONIC AVALYSIS MO DVERALL CYCLIC LOAD	DEL CL8705 = C.356645E	SHIP 33 T 010	CTR 17 F	ELT 13.0	TR 6 1 FLAI	BENU STA 43
DERO POSITION USED						*
-0.1390564E 05	BJ	C1	PHI JC	PSIJC	CJ/CJMA'X	J FREJUENCY
	0.25028078 0	4 0.251139JE 04	94.738	94.738	1.000000	1 2.577
	0.1654967E 0				0.114508	2 5.155
0.6342837E 03	0.4583022E 0	3 0.78253226 03	35.850	11.950	0.311593	3 7.732
-0.26797625 02 -	0.2506529E 0	3 0.25205128 03	3 253.898	65.974		10.304
-0.3564333E 02""-	0.175236FE G	3 0.17902695 03	3 ~ 258.139		0.071286	> 14.847
0.61458695 03	0.1192406E 0	3 0.6260474E 03	3 10.980		C.249283	6 15.464
-0.4638576E 02	0.7CUH523E 0				C.279660	7 10.041
	-0.1332410E 0				0.037954	8 20.019
0.6636436E 02 -					0.055717	9 23.170
-0.5977340E 01 -	-0.1183875E O	3 0.1185334£ 03	3 267 • 157	26.716	0.047198	10 25.173
HARMONIC ANALYSIS MO OVERALL CYCLIC LOAD			CTR 17 F	:LT 13.0	TR 31 2 FLAF	BEND STA 43
			35000 00			
ZERU POSITION USED	3.79	ECASTIN USED	25900.00			
-0.9274914E 04	ВЈ	cı -	PHIJC	PSIJC "	CJ/CJPAX "	J FREQUENCY
0.1416468E 04 -	0.2124495E 0	3 0.1432311E 04	4 351.470	351.470	1.000000	1 2.577
-0.1143421E 04 -	0.5851362E 0	3 0.12644436 04	207.101	103.553	C.896763	2.577 2 5.155
	0.1661719E 0		20.936	6.979	0.324686	3 7.732
	0.255 7928E 0		3 259.742	64.935	0.181489	4 10-309
	J.1275308E 0		231.851	46.370	0.113266	> 12.007
	0.2135260E 0		3 336.054	56.139	0.376194	0 15.464
0.1791538E 03	0.6123223E 0	3O.6379941E_03	73,691	10.527	0.445430	7 18.041
	0.6426722E 0		151.865	18.983	0.095182	8 40.619
	0.2654594E 0				0.040319	9 23.196
-0.3645789E 02 -	0.7103928E 0	2 0.1118997E 0	219.409	21.941	0.078125	10 25.773
• • • • • •			. • .	A11		
DV 212Y LANA DINCMRAR DACL DILDYD LLARFYN	DEL CL8705 = C. 330230E	SHIP 33 T 010	CTR 17 F	LT 13.0	TR 11 3 FLAF	BEND STA 43
LERO POSITION USED						
-0.9081754E 04		-CJ				
	0.7013320E 0				1.000000	
	0.1C79583E 04				0.030488	2 5.155
0.3942627E 03	0.3235864E 03			13.126	0.256759	3 7.732
	0.2359117E 0			73.733	0.130906	4 LJ.3U9
0.7563359E 01	0.1699686E 0			54.510	0.085597	, ,,,,,,
-0.89449758 02	0.131 F2 98E 0: 0.3714189E 0:				C-299848	0 15.404
-0.5615158E 02	0.1628746E 0				0.192318	
	0.11128896 0				C.086727	8 20.619
0.13176436 02 -	0.1392363E 0	3 0.1398285E 03		25.835	0.070862	3 43.196
	0 - 1 - 2 E O O 3 E . O .	2013706035 03	275.407	27.541	0.070370	102>.773

Table III. (Continued)

TEST 13 N =	2 (CONTINUED)				,		
HARMONIC ANALYS	IS MODEL CL8705 LOAD = 0.212997	SHIP 33 T C	DIO CTR 17	FLT 13.0	TR 41 2 FLA	IP BEND S	TA LAG
ZERO POSITION L	ISED 0.39	LCAD/IN USED	-14150.00				•
-0.2095487E			PHIJC	PSIJC	CJ/CJPAX	J	FREQUENCY
0.9903705E		04 0.15115628	E 04 310.935	310.935	1.000000	1	2.577
-0.2759858E			E 03 132.569	66.335	C.27J367	_	
0.2011812E (12.774	C.169790	3	5.155 7.732 10.309 12.887
-0.4663604E C	3 -0.3656738E	Ó3 0.59262925	E 03 218.100	54.525	0.392064	4 -	10.309
-0.1611105E	0.1687844E	03 0.16955166	E U3"""75.453	19.091	0.112170	5	12.887
-0.3217188E 0	0.1979343E	03 0.25664728 03 0.59262928 03 0.16955168 03 0.37773123 03 0.34347348	E 03 148.399 E 03 244.730 E 02 299.959	24.733	0.249895	6,	15.404
-0.1466225E	3 -0.31360578	03 0.34347348	244.730	34.961	0.227231		18.041
0.3765463E	12 -0.65325778	02 3.7540196	F 32 299.959	37.495	0.049283		20.619
0.3200739E 0	-0.3E17393E	02 0.49816886			0.032957		23.190
0.6873729E	0 • 1 64 27 6 9 F	02 0.7015768	E 02 13.542	1.354	0.046414	10	25.773
HARMONIC ANALYS	IS MODEL CL8705 LDAD = 0.620593	SHIP 33 T 0	010 CTR 17	FLT 13.3	TR 34 2 CHO	RU BENU	STA 21.
	SED 3.11						
4.5			PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
0.6703230E 0	14						
0.7617520E C	0.3565994E	0.9410881	03 25.096 04 325.336	25.086	0.205821		2.577
0.3361180E C		04 0.40865088	04 325.336		1.000000	<u>i</u>	5.155
0.3939277E)3 -0.3444448E	03 0.52327938		106.278	0.128050	3	.7.732
-0.15056505 0	4 0.1441571E	04 0.20844928	34 136.246	34.061	0.510091		
0.8440678E	2 0.9387749E	02 0.12624375	33 48.341	9.638	0.030893	5	12.887
-0.2194413E C	0.3546082E	02 3.22296138	03 169.806	28.301	0.054560	6	15.464
-0.8922546E (74 -0.2377554E	03 0.2539+656	249.430	35.633	0.062143	5 6 7 8	18.041
-0.5984483E 0	12 0.13534335	02 0.96383916	2 128.382	15.048	0.023586.	8	20.619
0.8637418E	0.3546082E 02 -0.2377554E 02 0.7555435E 02 -0.1794476E 02 0.2384494E	02 0.89605108	02 15.433	1.543	0.020508		23.196 25.773
		1					
HARMONIC ANALYS	IS 400EL CL8705	SHIP .33 T 0	010 CTR 17	FLT 13.3	TR 38 2 CHO	RU BENU :	TA 69
	LOAD_= C. 372067						
ZERO POSITION U	SED 1.15						
0.2369593E 0			PHIJC	PSTJC	CJ/CJMAX	J	FREGUENCY
0.2583267E 0		03 0.4 515491	03 55.965	55.965	0.199540		2.577
0.1919953E 0				161.320		2	5.155
0.1774725E 0		O3 0.2998750E	03 306.286	102.095	0.123147	3	7.712
-0.9445833F 0	3 0.12208156		04 127.730		0.633887	4	10.409
0.8288823E 0		01 0.83135136	355.583	71.117			12.887
-0.9502332E 0			03 139.380		0.051410	6	17.404
0.12543956 0					C.078055	7	
0.10019935 0		03 0.16349778	33 86.486	10.611	0.067138	8	20.019
0.4281319F 0	2 0.3771511E 2 0.1219481E	UL 0.4297897E	02 5.034	0.559	0.017650	y	23.196
			03 84.056	8.406	0.050350	10	

Table III. (Continued)

TOCT			
TEST	13	N =	

MARMONIC ANALY OVERALL CYCLIC					3 T	010	CTR	18	FLT	13.0	TR	6	1 FL	AP B	END	STA	43
EPO POSITION	USEO	9.51	LC	HIVS4	USED		-41450	.ນວ	(FA	CTOR	THESE	NUM	BERS	вч	0.63	3)	,
AJ -0.1054090E	05	P1			CJ		PH.	I JC	ı	OLIZA	C	J/CJ	MAX		٠,	F	KEZUE 4CY
-0.15891898		0.873346SE	04	0.18	12479	E 05	151	. 194	1 !	51.19	4 1	.000	000				2.710
0.1499016E	04	0.1CL &399E	04	0.18	12231	E 04	34	. 191	_	17.07	-	.099		••	٠, ٠		5.420
0.4274675E	03	0.8412515E	03	0.943	36362	E 33	53	. 054		21.02	1 0	.05	2063		3		8.130
-0.38196888	03	0.1166441F	04 -	0.122	29290) Ē 04	108	.10:	,	27.02		7 د 0 ه			-		10.8-0
-0.3390662E	03	0.24131628	03	3.416	1721	E 33	144	. 5 5C)	28.91	2	.02	2961		- 5		12.55
0.17416385	03	0.1374250E	04	0.136	35244	€ 94	32	. 776		13.79		.076			6		10.400
-0.1009342F	33	0.6334785E	03	0.54	146 92	E 33	79	. 353	,	14.15		.039			7		18.970
-0.1647612£	02	0.39943798	62	0.43	20844	E 04	112	. 415	,	14.05		.00			a	•	21.680
-0.1055371E	02	9.15139976	01	0.106	:6175	E JZ	171	. a 36		19.09	_	.000			ÿ		24.190
-0.1144477E	02	-0.1535156E	02	0.19	14819	E 32	233	. 295		23.32		.031			ıó		27.100

MARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 18 FLT 13-0 TR 31 2 FLAP BEND 5TA 43 OVERALL CYCLIC LDAO = 0-100079E 05

	ZERO POSITION	02F2	3.75	CCADVIN USED		25900.00				
	- AJ		BJ	cJ.		PHIJC "	PSIJC	CJ/CJMAX		FREJUENCY
	-0.6686117F	04								
	-0.7774113E	04	0.4002045E	04 0.8743750E	J 4	152.761	152.761	1.000000	1	2.710
	0.7937542E	03	-0.5367534E	02 0.79556698	3	355.131	178.066	0.090587		5.440
	0.2218432E	03	0.4352021E	03 0.4884827E	03	62.990	20.997	0.055866	3	8.130
	-0.40756718	03	0.6625046E	03 3.77783258	03	121.600	30.400	0.088559	4	10.840
-	O.9063 530E	02	~ 0~1 84 92 94E ~	02 0.9250266E	02	17.532	2.306	0.010579	5	13.550
	0.3527224E	03	0.6491497E	03 0.91949245	J3	57.443	11.240	0.105160	6	10.200
	-0.139475+£	03	U.2465946E	03 0.26980325	33	113.739	16.277	0.030857	7	18.970
	-0.2240776E	01	0.331 4084E	02 0.33216516	02	93.368	11.734	0.003799		41.080
	0.4479688E	02	-0.115486CE	03 0.1238700E	03	291.201	32.356	0.014167	ŏ	24.390
_	0.35385418	02	-0.3271202E	02 0.48928256	02	318.043	31.834	0.005596	10	27.100

MARMONIC ANALYSIS MODEL CL6705 SHIP 33 T 010 CTR 18 FLT 13.0 TR 11 3 FLAP BEND STA +3
DV ERALL CYCLIC LOAD = C. 919927E C4

ZEKU POSTTIUN	OZEO	8.27	LEAD/IN	USED	-30430.00				
-0.6956453E	04	87		C.J.	PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
-0.7223793E		0.3348394E		62394E 0		155.131	1.000000	1	2.710
0.3772559£	_	-0.4200389E		45835E U	3 311.928	155.954	0.070909	· · · · · · · · · · · · · · · · · · ·	5.420
0.35226648	_	0.3477251E		21450E 0	3 43.827	14.609	0.063067	٠.	8.130
-0.1058319F		0.6457053E	03 0.65	43209E J	3 79.338	24.827	0.082179	4	10.840
0.4969560E		```O.1512600E`	03 3.15	13416E J	3 38.118	17.624	0.019008	<u>-</u>	13.550
0.1853716E	03	0.6457905F	0.67	1869LE 0	3 73.994	12.331	0.084383	6	10.260
-0.1502926F	03	0.24022556	0.28	33657E J	3 122.031	17.433	0.035589	7	18.970
0.1344509E	ΟĨ	0.28023445	02 . 0.28	05565E Q	2 87.253	10.907	0.003524		21.080
-0.3806575E	02	0.9509439E	01 0.39	23558E 0	2 165.974	18.442	0.004928	š	24.390
0.3591699E	02	-0.9486501E	05 0.10	14367E 0	3 290.737	29.074	0.012740	10	27.100

Table III. (Continued)

		(CONT I HUED									- -				
HARMONIC ANAL		D = 0.272	845		33	T 010	CTR	18	FLT	13.0	TR 41	2 _. FL	AP BEN	D STA	116
ZERO POSITION	USED	0.39		LCAÜ	/IN USE	9	-1415	10.00						•	, .
A.J					c.ı		- · · · · · · · · · · · ·	DLIH	و	SLIC	647	CJMAX		FI	KEYUENĆY'''
-0.1790032E	04								• •		-		•	• • •	
-0.7805186E	03	-0.375406	7E 03		0.86610	60E 0	3 20	5.636	20	5.680	0.7	06500	1		2.710
0.4792139E	03	0.671059	LE 03		0.22460	965 0) 3 5	4.459	2	7.234	0.6	72644	2		5.420
-0.7542691E	02	0.1443429	PE 03		0-15330	55E (3 11	7573	31	9.169	0.1	33212			8.130
-0.9102266F	03	0.821,184	5E 03		3.12259	iJE d	14 13	17.944	34	4.480	1.0	00000	÷		10.640
-0.7293714E	02	0.143219			3.16074			7.004	. 2.	3.40 L	C.1	31123	د		13.500
-0.3941621E	03	-0.395147	9E 03	٠ ٠	0.55812	70E 0	3 22	5.072	3.	7.512	0.4	55276	0		10.200
0.44384025	02	-0.145521	7E 03		0.15215	97E 0	3 29	6.902		0.995		24103	7		10.970
0.2063005E	00	0.359033	3E 02		J.35903	385)2 8	9.670	- 1	1.209		29288			21.600
0.3450438E		-0.172230			3.38564		02 33	13.474				31457			44.390
-0.1761520E		0.516353			J.54557			8.837		0.884		44504			27.100
					-										
									٠.,						
			-												
HARMONIC ANAL	vc 1 c	MODEL C1 97	16	SHI P	22	T 010		10			TD 3/	3.64	ORU BÉI		
OVERALL CYCLI						, 010	, CIK	18	FLI :	13.0	1K 34	2 ()	NKU BEI	AD 214	21.
ZERO POSITION	USED	3.11	•	LCAD	/IN USE	ס	-2030	10.03					••		,
		61"			¢J	٠.	ρ	HI JC "	. Р	SIJC	CJ/(CJMAX	٠ .	Fr	KERUENCY
0.6607047E															
0.1392377E		0.155172			0.14059			7.979	7	7.979	0.1	48657	L		2.710
-0.9032512E	04	-0.276159			0.94452	42E J	19	7.000	98	8.500	1.0	00000	. 2		5.420
0.1192038E	03	-0.160909	LF 03		0.20025	30€ C	30	5.531	102	2.177	0.0	21201	3	2.0	8.130
0.39201676	04	0.110635	5E 04		0.40732	94E 0)4' 1	5.750		3.940	0.4	31254	. 4		10.840
-0.4666493E	02	0.959828	SE 02		0.10663	35 E 3	311	5.952	2	3.190	0.0	11290		**********	-13.550
-0.9133454E	02	0.9550439	9E 02		3.13216	255 0	3 13	3.737	2.	2.290	0.0		0		10.260
U.3088220E	03	0.711646	SE 02		0.31691	55E 3		2.977		1.854		33553			18.970
-0.6340109E	01	0.1532150			0.15334			2.372		1.546		16235			21.080
-0.6015591E		0.273881			0.66097			5.521		7.280		06598			24.390
-0.5313983E		0.142882			0.15244		3 11	0.401		1.040		16140	10		27.100
 								.1 -117.							
												•	•		
		4						.•							. ,
ARMONIC ANALY	rsis	HODEL CL870	15	SHI P	33	7 010	CTR	18 (ELT I	13.3	TR 38	2 CH	ORU BEI	ATZ CIR	69
OVERALL CYCLIC	LOA	D = C. 746	48E	C4					. ,						••
ZERO POSITION	USED	1.15		LCAD.	/IN USE)	1620	0.00			,				-
-0.1270944E	02	BJ			C.J.		p	HIJC	PS	SIJĆ -	CJ/C	JMAX		FR	FANEACA
0.7274475E		0.2956099)E 03		0.76559	355 A	3 2	2.183	2:	2.183	0.14	6540	. 1)	2.710
-0.5152426E		-0.1426887			0.53463			5.479		7.740		0000			2.110
-0.508+307E		-0.4358372			0 570069	SIE O	9 23	0.576		3.525		12533	3		8.130
0.29413826		0.696295			0.30226	73F 1	14 1	3.318		3.330		55371	4		10.840
-0.9170914E		-0.7565981		·: }	0.11891	50F 0	3	0.463				22242			13.550
0.5002414E	_	0.7126588			0.93175			9.894		3.316		17428	_		
0.25609336		-0.6122173			0.26330			6.555		9.538		9250	7		16.260 18.970
0.6783441E		0.120036			0.13785			0.539		7.567		25786	···· / 8	~	
-0.5327649E		0.1807729			0.56254			1.257		7.9L7		10523	9		21.680 24.390
	~-	· · · · ·		,		JUL U		71			الاعما				47.370
0.4831520E	02	0.3586926			0.62641		2 1	9.529		1.953		1717			27.100

Table III. (Continued)

TEST 13 N = 4	·					<u>.</u>		
HARMONIC ANALYSIS (SHIP E 04	33 T 010	CTR 19 F	ELT 13.0	TR 6 1 FLA	P BEND.ST	4 43
ZEKO POSITIUN USED	9.51	LCAD/IN	USED	-41450.00	(FACTOR	THESE NUMBERS	BY 0.038)
	BJ		- CJ	` PHI JC	PSIJC	CJ/CJMAX		FREGUENCY
-0.1330021E 05								
-0.2424969E 04	0.346551 <i>6</i> E	0.4	229688E 0	4 124.982	124.982	1.000000	Ł	2.538
-0.4056626E 03	0.4767295E	03 0.6	259658E J	3 130.375	65.198	0.147993		5.076
0.7347153E 03	0.35457316	03 J.,5	612683E 3	3 24.340	8.113	C.203625		7.014
-0.2002550E 02	-0.95612186	02 0.9	763675E 3	2 258.170	64.543	0.023096	4	10.152
-0.7199283E OZ	-0.1176170F	C3 0.1	375011£ 0	3 238.529.	47.735	C.0326033	· - 5 · ··	14.090
0.83641858 03	-0.1457007E	03 0.8	490139E 0	3 350.118	58.353	C.200727	5	12.248
0.1979574E Os	0.81306376	G3 0.8	363152E 3	3 70.310	10.932		7	17.700
-0.1889029E 03	0.9797449E	02 0.2	127987E J		19.073		Š	20.305
-0.1317951E 03	-0.1193265E		777988E 0		24.584		,	22.843
-0.5684407E 02	-0.6587814E		701251E 3		22.921		ŁÚ	25.381

HARMONIC ANALYSIS MODEL CLB705 SHIP 33 T 010 CTR 19 FLT 13.0 TR 31 2 FLAP BEND STA 43 DV ERALL CYCLIC LDAD = G. 257232E 04 ZERO POSITION USED 3.75 LCAD/IN USED 25900.00BJ CJ PSIJC PHI JC CJ/CJMAX FREQUENCY -0.9091008E 04 0.2033717F 03 -0.1201279E 04 0.30468555 03 0.3663240E 03 56.278 C.28357a 56.278 2.538 -.0.4750381E 03 0.1291794E 04 201.576 100.788 1.000000 5.J76 7.614 0.3188335E 03 -0.9618727E 02 0.1C95394E 03 -0.6620372E 02 -0.4461638E 02 0.3371255E 03 13.961 6.320 C.260575 0.1167686E 03 0.4717795E 02 214.539 53.635 C.090393 10-152 0.1533420E 02 288.967 51.793 0.036521 14.690 0.49290705 03 -0.3649187E 03 0.62539555 03 322.013 53.669 0.484130 6 15.228 J.5392314E 03 0.6159096E 02 0.21693616 03 0.4936692E 03 7 66.278 9.468 C.417428 17.700 -0.4949414E 02 -0.3665755E 02

216.525

203.365

214.772

27.066

22.598

0.047679

0.081688

0.107083

á

20.105

22.843

25.381

HARMUNIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 19 FLT 13-0 TR 11 3 FLAP BEND STA 43 JV ERALL CYCLIC LOAD = 0.226444E C4

-0.9685632E 02

-0.1136276E 03

ZERO POSITION	USED	8.27	LCA	D/IN USED	-	30400.00				
AJ		BJ		C J		PHIJC	"PŠIJC"	CJ/CJMAX	- , -	FREQUENCY
-0.8756789E		0 202/2575								
		-0.3936357E		0.4854507E		305.819	305.819	0.409099	1	2.538
-0.8077415E		-0.8692813E	03	0.1186632E	04	227.102	113.551	1.000000	2	5.376
0.4210554E		0.1546309E	03	0.46385J3E	03	24.805	8.268	C.390896	3	7.014
-0.11922565		-0.1C18042E	0.3	0.15677548	33	220.493	55.123	0.132119	ž	10.152
0.5063 194E		"0.4141902E	02	0.55415025	02	39.295	7.857	- C.055127-		12.090
0.5629551E		-0.2634380E	03	0.63028238	03	333.275	55.5+6	0.531152	. 6	15.228
0.47521046	02	. 0.444 E230E	03	U.44735-0E	03	93.902	11.996	0.376595	7	17.766
-0.14518228		0.16072408	03	0.16073058	03	90.518	11.315	0.135451		20.305
-0.55275948		-0.1462212E	03	0.15c3204E	03	2+9.292	27.699	0.131734	Š	22.843
-0.8307085E	02	-0.3445757E	02	0.8717029E	02	203.284	20.328	0.073460	LÚ	25.381

Table III. (Continued)

JV FRALL CY ZERO POSIT -0.2083 0.65028 -0.36521 0.19962 0.19992 0.12997 -0.308J4 -0.15787 0.40707 0.26437 0.61257 HARMCNIC A JV ERALL CY ZERO POSIT -0.56138 -0.11678 0.25473 0.25473 0.39215	CYCL 1: ITION AJ 8389E 2654F 2156E 6021E 9773E 9773E 9773E 07125 3202E	USED 04 03 03 03 03 02 03 03 02 02 02 02	0.39 8J -0.988006i 0.3665000 0.625850i -0.1157657 0.3094-14 -0.31634-96 -0.9878004 0.7141096 0.614986i	BE 03 2E 03 1E 02 8E 03 9E 03 4E 03 6E 03 6E 02 2E 01	0.0 0.0 0.0 0.0 0.0	33 T N USED CJ 1182805 5174019 1999800 5333250 1194750 4366294 3535566 1068390 2737968	E 04 E 03 E 03 E 03 E 03 E 03 E 03 E 03 E 03	-14150.00 PHI JC 333.352 134.899 16.539 200.384 83.754 134.870 243.478 293.96 15.119	PSIJC 303.352 67.450 6.183 50.076 16.751 22.478 34.783 36.550	1.000000 0.437436 0.169C73 0.450898 0.101010 C.369147 0.298514 0.090327	J 1 2 3 4 5 0 7 6	FREQUENCY 2.538 5.076 7.614 10.152 12.690
-0.20883 -0.36521 -0.36521 -0.36521 -0.36521 -0.36521 -0.18960 -0.49992 -0.15787 -0.40707 -0.26432 -0.61257 HARMCNIC A DV ERALL CV ZERO POSIT -0.56138 -0.11678 -0.25473 -0.39215 HARMONIC A DV ERALL CV ZERO POSIT	8389E 2854F 2156E 6021E 9270E 9773E U444E 8776E 07125 3202E	04 03 03 03 03 02 03 03 02 02 02	BJ -0.988006(0.366500) 0.6358501 -0.1F5764(0.118765; 0.30944; -0.316349(-0.9878004) 0.714109; 0.614986(BE 03 2E 03 1E 02 8E 03 9E 03 4E 03 4E 03 4E 02 2E 01	0.000000000000000000000000000000000000	CJ 1 182805 5 174019 1 999800 5 333250 1 194750 4 366294 3 5 3 5 5 5 6 1 0 6 8 3 9 0 2 7 3 7 9 6 8	E 04 E 03 E 03 E 03 E 03 E 03 F 03 E 02	PHIJC 333.352- 134.899 16.539 200.384 83.754 134.870 243.478 292.396 15.119	303.352 67.450 6.180 50.076 16.751 22.478 34.783 36.550 1.680	1.000000 0.437436 0.169C73 0.450898 0.101010 C.369147 0.298514 0.090327	2 3 	2.538 5.070 7.614 10.152 12.690 13.228 17.766 20.305
-0.20883 0.65026 -0.36521 0.19960 -0.49992 0.12991 -0.30894 -0.15727 0.40701 0.26432 0.61257 HARMCNIC A JV ERALL CY ZERO POSIT 0.30264 -0.19965 -0.19965 -0.1965138 -0.11678 0.25473 0.39215	8389E 2654F 2156E 6021E 9270E 9773E U444E 2776E 07125 3202E	03 03 03 03 02 03 03 02 02 02	-0.588006 0.366500 0.625850 -0.1557640 0.1157657 0.309441 -0.3163496 -0.9676004 0.7141096	2E 03 1E 02 8E 03 9E 03 4E 03 6E 03 4E 02 2E 01 8E 01	0.1 0.2 0.1 0.2 0.1 0.2 0.1	1 182805 5 174019 1 999800 5 333250 1 1 94750 4 366294 3 5 3 5 5 66 1 0 6 8 3 9 0 2 7 3 7 9 6 8	E 04 E 03 E 03 E 03 E 03 E 03 E 03 E 03 E 03	303.352- 134.899 16.539 200.384 83.754 134.870 243.478 292.396 15.119	303.352 67.450 6.180 50.076 16.751 22.478 34.783 36.550 1.680	1.000000 0.437436 0.169C73 0.450898 0.101010 C.369147 0.298514 0.090327	2 3 	2.538 5.070 7.614 10.152 12.690 13.228 17.766 20.305
0.65026 -0.36521 0.18960 -0.49992 0.12997 -0.30812 -0.15787 0.40707 0.26435 0.61257 HARMCNIC A DV ERALL CY ZERO POSIT -0.56138 -0.11678 0.25473 0.39215	2 8 5 4 F 2 1 5 6 E 6 0 2 1 E 9 2 7 0 E 9 7 7 3 E 0 4 4 4 E 0 7 1 2 E 3 2 0 2 E	03 03 03 03 02 03 03 02 02 02	0.366500; 0.625850; -0.1F57640; 0.115765; 0.3094414; -0.3163490; -0.9678000; 0.714109; 0.614986;	2E 03 1E 02 8E 03 9E 03 4E 03 6E 03 4E 02 2E 01 8E 01	0.: 0.: 0.: 0.: 0.: 0.:	5174019 1999800 5333250 1194750 4366294 3535566 1068390 2737968	E 03 E 03 E 03 E 03 E 03 E 03 E 03 E 02	134.899 18.539 230.384 83.754 134.870 243.478 292.396 15.119	67.450 6.183 53.076 16.751 22.478 34.783 36.550 1.680	0.437436 0.169C73 0.450898 0.101C10 C.369147 0.298514 0.090327	2 3 	5.076 7.614 10.152 12.690 15.428 17.766 20.305
-0.36521 0.19960 -0.49992 0.12997 -0.30804 -0.15727 0.40707 0.26432 0.61257 HARMCNIC A DV ERALL CY ZERO POSIT -0.19905 -0.19905 -0.19721 -0.56138 -0.11678 0.25451 DV ERALL CY ZERO POSIT	2156E 6021E 9270E 9773E 0444E 8776E 0712E 3202E	03 03 03 02 03 03 02 02 02 02	0.366500; 0.625850; -0.1F57640; 0.115765; 0.3094414; -0.3163490; -0.9678000; 0.714109; 0.614986;	2E 03 1E 02 8E 03 9E 03 4E 03 6E 03 4E 02 2E 01 8E 01	0.: 0.: 0.: 0.: 0.: 0.:	5174019 1999800 5333250 1194750 4366294 3535566 1068390 2737968	E 03 E 03 E 03 E 03 E 03 E 03 E 03 E 02	134.899 18.539 230.384 83.754 134.870 243.478 292.396 15.119	67.450 6.183 53.076 16.751 22.478 34.783 36.550 1.680	0.437436 0.169C73 0.450898 0.101C10 C.369147 0.298514 0.090327	2 3 	5.076 7.614 10.152 12.690 15.428 17.766 20.305
0.18960 -0.4997 -0.12997 -0.308J4 -0.15787 0.40707 0.26432 0.61257 HARMCNIC A DV ERALL CY ZERO POSIT -0.56138 -0.11678 0.25473 0.39215 HARMONIC A DV ERALL CY ZERO POSIT	6021E 9270E 9773E 0444E 8776E 07125 3202E	03 02 03 03 03 02 02 02	0.635850 -0.1F5764 0.11S765 0.3C9441 -0.3163496 -0.7E7600 0.714109 0.614986	1E 02 8E 03 9E 03 4E 03 6E 03 4E 02 2E 01 8E 01	0.1	1 999800 5 333250 1 1 94750 4 366294 3 5 3 5 5 66 1 0 6 8 3 9 J 2 7 3 7 9 6 8	E 03 E 03 E 03 E 03 E 03 E 03 E 02	18.539 200.384 83.754 134.870 2+3.478 292.396 15.119	6.183 50.096 16.751 22.478 34.783 36.550	0.169C73 0.450898 0.101C10 C.369147 0.298914 0.090327 0.023148	3 5 7 6 9	7.614 10.152 12.690 15.428 17.766 20.305 44.843
-0.49992 0.12997 -0.30804 -0.15787 0.40707 0.264557 0.60257 HARMONIC A JV ERO POSIT -0.19965 -0.19466 -0.19466 -0.19467 0.32268 -0.74604 0.19965 -0.1975 0.32215	9270E 9773E 0444E 2776E 07125 3202E	03 02 03 03 02 02 02	-0.1F57640 0.11S7657 0.3C94414 -0.3163496 -0.9E76004 0.7141092 0.6149860	8E 03 9E 03 4E 03 6E 03 4E 02 2E 01 8E 01	0.: 0.: 0.: 0.: 0.:	5 333250 1 1 94750 4 366294 3 535566 1 068390 2 737968	F 03 E 03 E 03 E 03 F 03 E 02	200.384 83.754 134.870 2+3.478 292.396 15.119	50.076 16.751 22.478 34.783 36.550 1.680	0.450898 0.101010 0.369147 0.298914 0.090327 0.023148	5 7 8 9	10.152 12.690 15.428 17.766 20.305 44.843
0.12997 -0.308J4 -0.15767 0.40707 0.26432 0.61257 HARMCNIC A DV ERALL CY ZERO POSIT 0.36266 -0.19965 -0.1965138 -0.11678 0.25473 0.39215	9773E J444E 8776E 07125 3202E	02 03 03 02 02 02	0.115765' 0.3C94+1' -0.316349' -0.9E76004 0.714109' 0.614986	9E 03 4E 03 6E 03 4E 02 2E 01 BE 01	0.1 0.4 0.1 0.6	1 194750 4366294 3535566 1 06839J 2 737968	E 03 E 03 E 03 F 03 E 02	83.754 134.870 243.478 292.396 15.119	16.751 22.478 34.783 36.550	0.101010 C.369147 0.298914 0.090327 0.023148	7 6 9	12.690 15.228 17.766 20.305 22.843
-0.308J4 -0.15787 0.40707 0.26432 0.61257 HARMONIC A DV ERALL CY ZERO POSIT -0.80822 0.19903 0.32268 -0.74604 0.19965 -0.19721 -0.56138 -0.11678 0.25473 0.39219	0444E 2776E 07125 3202E	03 03 02 02 02	0.3094+14 -0.316349 -0.967600 0.714109 0.614986	4E 03 6E 03 4E 02 2E 01 BE 01	0 0 0	4366294 3535566 106839J 2737968	E 03 E 03 E 03 E 02	134.870 243.478 292.396 15.119	22.478 34.783 36.550 1.680	C.369147 O.298914 O.090327 O.023148	7 6 9	15.228 17.766 20.305 22.843
-0.15727 0.40707 0.26432 0.61257 HARMCNIC A DV ERALL CY ZERO POSIT 0.80822 0.19903 0.32268 -0.74604 0.19963 -0.11678 0.25473 0.39219 HARMONIC A DV ERALL CY ZERO POSIT	8776E 07125 3202E	03 02 02 02	-0.3163496 -0.9876004 0.714109 0.614986	6E 03 4E 02 2E 01 BE 01	0 0 0	3535566 1068390 2737968	E 03 E 03 E 02	2+3.478 292.396 15.119	34.783 36.550 1.680	0.298914 0.090327 0.023148	7 6 9	17.766 20.305 22.843
0.40707 0.26432 0.61257 HARMCNIC A DV ERALL CY ZERO POSIT 0.66475 0.80822 0.19903 0.32268 -0.74604 0.19965 -0.19765 -0.56138 -0.11678 0.25473 0.39219	07125 3202E	02 02 02	-0.9678004 0.714109 0.614986	4E 02 2E 01 BE 01	0.1 0.4	L 0683.9J 2 737968	F 03 E 02	292.396 15.119	36.550 1.080	0.090327 0.023148	8	20.305
0.26432 0.61257 HARMONIC A DV ERALL CY ZERO POSIT 0.66475 0.8082 0.19903 0.32268 -0.74604 -0.19721 -0.56138 -0.11678 0.25473 0.39215 HARMONIC A DV ERALL CY ZERO POSIT	3 202E	02 02	0.714109; 0.614986; MODEL CL876	2E 01 BE 01	0.	2737968	£ 02	15.119	1.680	0.023148	9 .	22.843
O.61257 HARMONIC A DV ERALL CY ZERO POSIT 0.66475 0.80822 0.19903 0.32266 -0.74604 0.19962 -0.19721 -0.56138 -0.11678 0.25473 0.39215 HARMONIC A DV ERALL CY ZERO POSIT		02	0.614986	BE 01	0.0							
HARMONIC A JV ERALL CY ZERO POSIT 0.66475 0.80822 0.19903 0.32268 -0.74604 0.19965 -0.19721 -0.56138 -0.11678 0.25473 0.39215 HARMONIC A JV ERALL CY ZERO POSIT	> 764E		MODEL CL870	•		5156557	E 02	5.733	0.573	0.052050	10	
2ERO POSIT AJ 0.66479 0.80822 0.19903 0.32268 -0.74606 0.19965 -0.19721 -0.56138 -0.1107 0.25473 0.39215			MODEL CLB70									
AJ 0.66475 0.80822 0.19903 0.32268 0.74604 0.19965 -0.19721 -0.56138 -0.1167 0.25473 0.39215 AJ ZERO POSIT	CACT 1	LO4		833E (04					TR 34 2 CH	DRQ BEND 5	T4 21.
0.66475 0.80822 0.19903 0.32266 -0.74604 0.19963 -0.19721 -0.56138 -0.11678 0.25473 0.39215 HARMONIC A DV ERALL CY ZERO POSIT								-20300.00				
0.80822 0.1903 0.3226 0.74604 0.19965 0.1976 0.55138 0.11678 0.25473 0.39219			e1			Cl		PHI JC	PSIJC	CJ/CJMAX	· '3	FREQUENCY
0.19903 0.32268 0.32268 0.19269 0.19965 0.1107 0.25473 0.39215 AD JINCHARH			0.308881	16 03		452266	5 03	20 014	20 014	0.312952	1	2.538
0.32266 -0.74604 0.19965 -0.19721 -0.56138 -0.11678 0.25473 0.39215 AD JUCHRAH			-0.151894			2764747			158.323	1.000000	1/2	5.076
-0.74604 0.19965 -0.19721 -0.56138 -0.11678 0.25473 0.39219 HARMONIC ADVERALL CY ZERO POSIT									91.420	0.157104		
0.19965 -0.19721 -0.56138 -0.11678 0.25473 0.39219 MARMONIC A DV ERALL CY ZERO POSIT			-0.423153			4343533					_	7.614
0.19721 -0.56138 -0.116- 0.25473 0.39219 AD JUCHARH CY ZENO ON ST			0.1320055			1516286				C.548436		10.152
-0.56138 -0.11678 0.25473 0.39219 AUTOMARAH OVERALL CY ZERO POSIT AU 0.24610			0.2037592			2006935			1.165		5	12.690
O.21678 O.25473 O.39215 HARMONIC A DV ERALL CY ZERO POSIT O.24610			0.2107454			1983323				0.071736	6 ,	15.228
0.25473 0.39215 HARMONIC A DVERALL CY ZERO POSIT			-0.163898			1732457					7	17.700
AJ 2000-00-00-00-00-00-00-00-00-00-00-00-00			0.1491146			1177312				0.042583	8	20.305
A TINCHRAM TERMINIC A			0.675041			7215045				0.026097		22.843
ZERO POSIT AJ 0.24610	1 5 5 8 E	02	-0.8C74760	DE OI	0.4	4004190	E OS	348.366	34.837	0.014483	Lú	25.381
0.24610		LJ4	MODEL CL870 D = 0.2391	I COE	C4		_	CTR 19 F	LT 13.0	TR 38 2 CH	ORD BEND S	TA 69
	CYCLIC		BJ -					PHIJC	PSIJC	CJ/CJMAX	<u>-</u> -	FREJUENCY
0.29400	I T ION		_		,						, -	
	TTION TTION	03	0.334975	BE 03	0.4	456975	E 03	48.727	48.727	0.258306	1	2.538
0.11604	CYCLIC ITION AJ 1603E		-0.1276909			725465				1.000000	ž	5.076
0.11673	TTION TOOSE	03	-0.2097680			100926			91.062	0-121760	3	7.614
-0.36878	CYCL 16 I T ION L) 1 CO3E 0027E 0490E	03 04	0.104485			108024				0.642160		10:152
-0.63849	TYCL 16 I TION LICOSE 0027E 0490E 7390E	03 04 02	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			5398579		3.734	0.747	0.037C83		
-0.89283	TTION LC03E 0027E 0490E 7390E 7893E	03 04 02 03				3943324			29.447	0.051831		12.690
	ITION LCO3E 0027E 0490E 7390E 7893E 4998E	03 04 02 03 02	0.4166829			2050062						15.228
-0.51243	TYCL 16 I TION LCO3E 0027E 0490E 7390E 7893E 4998E	03 04 02 03 02	0.4166829 0.5173950			2 U 3 U U O Z 5 4 P 8 6 3 6 :			38.413	0.118812	7	17.706
-0.15649	TYCL IC ITION ITION 1003E 0027E 0490E 7390E 7893E 499BE 8346E 4646E	03 04 02 03 02 02 01	0.4166829		U.:		E 02	159.007 237.362	19.876 26.374	0.031810 0.016817	. 8	20.365 22.843

Table III. (Continued)

		44 -	
TEST	13	N =	•

HARMONIC ANALYSIS Overall cyclic LDA				33	T	010	CTR	20	FLT	13-0	TR	6	1 FLAP	BEND	5TA 43	
ERO POSITION USED	9.51		.CAC / IN	USE	0		-414	50.30		(FACTOR	THE	SΕ	NUMBERS	BY 0.	.638)	
, Y.J	BJ			С.	j			РНІ ЈС		PSIJC	C	:J/C	JMAX	٠ ي	FAL	. JUENCY
-0.1350764E 05																
-0.2976708E 04	0.2765595E	04	0.4	0631	65	E 04	• 1	37.10	6	137.105	1	.00	0000	1		2.551
0.10525498 03	0.430220UE	03	3.4.	+290	92	E 3:	3	76.25	2	38.126	C	. 10	9006	4		5.104
0.74073178 03	0.590@o55£	03	0.9	4752	255	E 3	3	38.57	9	12.863		.23	3199	٤		7.05
0.1144325E 02	-0.4653754E	CS	2.4	7923	35.)E)	2 2	83.51	4	70.954	Č	10.	1795	4		10.204
-0.51622925 02	-0.1950155E	03	J.2	0173	324	E J	3 2	55.17	3	51.035	č	.04	9649			14.755
0.73052115 03	-0.6129102F	02	9.7	3316	373	E 0:	3 3	55.20	5	59.201	Ċ	- 18	0447	6		12.300
-0.1550411E 03	0.24152468	03	0.8	5576	s é L	F)	3 1	30.43	9	14.343			0621	7		17.857
-0.5477550F 02	0.679d459E	02	2.8	7309	553	E 0		29. 5	-	16.107			1487			20.406
0.19509646 02	-0.7121179E	02				E 3		85.32		31.702	_		8172	ŭ		22.959
0.4314583t 02	-0.1737799E	03	0.1					33.94		28.394			4073	10	,	25.514

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 20 FLT 13.0 TR 31 2 FLAP BEND STA 43 OVERALL CYCLIC LDAD = 0.229056E C4

	ZERO POSITION	USED	3.75	ı	CAD/IN USED		25900.00				
	A.J	-	ВЈ		CJ		PHIJC	PSIJC	CJ/CJHAX	٠	FREQUENCY
	-0.9402930E	04						•			
	-0.46183988	03	0.5525085E	02	J.4723840E	03	167.671	167.871	0.617411	A	2.551
	-0.6788687E	03	-0.3528777E	03	. 0.7651047E	23	207.466	103.733	1.000000	2	5-1 UL
	0.3199326E	03	0.2737437E	03	0.4210610E	03	40.551	13.517	C.550331	3	7.653
	-0.3567458£	02	0.3523631E	02	0.5302983E	02	132.278	33.069	0.069311	. 4	10.204
_	-0:10118635	03	-0.5850T05E	02	3.1168834E	03	210.037	42.007	0.152768	5	12.755
	0.5649775E	03	-0.2604057E	03	0.5221023E	93	335.254	55.876	0.813094	6	15.300
	0.14595535	03	0.72004172	03	J.7346855ē	33	73.541	11.223	0.960242	7	17.857
	0.6675705E	02 "	-0.3803919E	01	0.66855312	32	356.739	44.592	0.087394	8	20.408
	-0.2272412E	03	0.2390462E	02	J.2284951E	03	173.995	19.333	0.298645	4	22.959
	-0.1657378E	02	-0.7108875E	20	0.7299518E	92	256.676	25.688	0.095405	10	25.510

HARMONIC ANALYSIS NODEL CL8705 SMIP 33 T 010 CTR 20 FLT 13.0 TR 11 3 FLAP BEHD 5TA 43 DVERALL CYCLIC LOAD = 0.193421E C4

ZERO PUSITION	USED	8.27		LCAD/IN USED	-	30400.30				
		ВЈ		сл		PHIJC	DELIC	CJ/CJMAX	J	FREQUENCY.
-0.8941844E	04									
-0.7060004E	02	-0.5709592E	03	0.5753076E	03	252 .95 l	262.951	0.873806	1	2.551
-0.3227295E	03	-0.5055898E	03	0.5958123E	03	237.449	118.725	0.911025	· 2	5.102
0.4575090F	03	0.246796EF	03	0.5193252E	03	28.343	9.448	C.789537	3	7.653
0.1295508E	03	-0.6819588E	02	0.1568057E	03	325.774	81.443	0.238164	4	10.204
0.1285559E	03 — .	0.6113672E	01	0.1297014E	J3	2.725	0.545	0.195478		12.755
0.05302735	03	U.8386210E	02	0.6583926E	03	7.320	1.220	1.000000	٥	15.306
-0.7216254E	01	0.4576584F	03	0.4979106E	03	90.830	12.976	0.756252	7	17.857
-0.6892903E	02	0.126E407E	03	0.1443599E	23	118.521	14.815	0.219261	A	20.408
-0.1083625E	03	-0.4257921E	02	0.11642776	03	201.451	22.383	0.176836	9	24.959
-0.1142849F	03	-0.6381564E	02	0.1308949E	03	209.179	20.918	0.199810	10	25.510

Table III. (Continued)

		,	(CONT I NU	IED)											
HARMONIC	ANAL	Y515	MUDEL CI	.8705	SHI	P 33	T O	10	CTR 20	FLT	13.0	TR 41	2 FLAI	PBEND	STA 118
DVERALL (CYCLI	C L04	D = C.	204213	E C4								_		
ZERO PUSI	NGI T I	USED	0.	. 39	LCA	D/IH U	SED	-	14150.33						
-0.300	43		. 8	n		. (٠ د:	٠.	PHI JC		PSIJC	CJ/C.	JMAX	j	FREJUENCY
-0.2094			-0.1140	1440F	04	0.1243	930F	04	293.537	7 2	03.537	1.00	1000	1	2.551
-0.1504		03	0.3554	678E	03	0.385	9855	03	112.93	B -	56.459	0.31	1207	2	5.102
0.190		03	0.1517	71 09E	03	0.2636	499F	03	40.64	7	15.549			_	
-0.450	2085E	03	-0.1427	7752E	03	0.4723	3U54E	03	197.599	5	49.399	G.37	5688	4	7.053 10.204 12.755
0.570	31572	02	0.867			0.103	323E	03	56.70	3	11.341	0.08	3471	······ > "	
-0.313			0.2823			0.4217	7056E	03	137.976	6	22.996		9C11	. 6	15.300
-0.126			-0.306			0.331	3069E	U3	247.52	1	35.360	0.26	5741	. 7	17.857
0.1703			-0.3780							4	36.782	0.03	3334		ZU-408
0.558			-0.1965						3+3.37	ı	38.155	C.05	270	9	22.959
0.7038	8443E	02	-0.2563	116E	02	0.7490	1607E	02	339.99	0	33.999	C.06	217	10	25.010
- 11 · · ·															
ARMONIC	ANALY	YSIS	MODEL CL	8705	SHI	33	T 01	10	CTR 20	FLT	13.0	TR 34	2 CH0F	D REND	STA 21.
OVERALL C	TCLI	LUA	U = C.4	1063 19	E U4										
ERO POSI	I T ION	USED	3.	11	LCA	O/IN US	ED	-	20300.00			•			
			₀			٠,			PHI JC		er ie				FREGUENCY
0.6823	ingne	04					. •		PHIJC		,211C	CJ/CJ	MAA	J	PREGUENCY
			0-1967	11 72F	0.3	0.7791	440E	0.3	13.366		3 044	0 34	473		2 551
0.1427	7027F	04	-0.1613	1852E	05	0.2154	2806	0.5	211 494		[J. ODO	0.361 1.000	1000		2.551 5.102
0.7508		03	-0.3754	204F	03	0.8394	395F	03	313.44		11.145	0.380	1441	ک 3	7.653
-0.7392		03	0.9298	438F	03	0.1187	909E	04	333.434 128.496 125.164 176.544		12.122	0.55	418		10-204
-0.3582	2008E	02	~~~O.5C84	697F	02	0.6215	720F	٠٠ <u>٠</u>	125.164		25.033	0.02	871		12.755
-0.1983		03	0.1198	LARE	02	0.1987	393E	03	176.544		29.424	0.09	253	6	15.300
		02	0.1198 0.2529- 0.1881 0.9353	004E	03	0.3046	055E	03	254.005	5	36.295	C-14	395	7	17-057
		02	~~0.1881	976E	02	0.8788	438E	02	167.635	5	20.954	0.040	795	8	17.657 20.408
-0.8584	+3106		0.0363	178E	02	0.9363	992E	OΖ	97 343	,	9.694	0.04	1467		22.959
-0.8584	5562E	01	0.7333						01.241					9	
	5 5 6 2 E	01 02	0.3086	935E	02	0.9363		02	123.422	2	12.342	0.01	168	9	25.510
-0.8584 0.4496	5 5 6 2 E	01 02		935E	02			02		2	12.342	0.01		9	25.510
-0.8584 0.4496 -0.2037	5962E 7141E ANAL 1	02	0.3C86	935E 8705	SHIF	0.3698	529E		123.422 CTR 20				168	10	25.510
-0.8584 0.4496 -0.2037 44 RMGN IC	ANALY	OZ (SIS	0.3C86 MODEL CL D = 0.2	935E 8705 74022	SH1 F	0.3698 33	7 OI	.0	123.422 CTR 20	FLT			168	10	25.510
-0.8584 0.4496 -0.2037 HARMONIC OVERALL C	ANALY CYCLIC	SIS LOA	0.3C86 MODEL CL D = 0.2	935E 8705 74022	SH1 F	0.3698 33	T 01	10	123.422 CTR 20	FLT	13.0	TR 38	2 CHGR	D BEND	25.510 STA 69
-0.8584 0.4496 -0.2037 HARMONIC DV ERALL C	ANALY TION	VSIS (0.3C86 MODEL CL D = 0.2	935E 8705 74022	SH1 F	0.3698 33	T 01	10	123.422 CTR 20	FLT	13.0	TR 38	2 CHGR	D BEND	25.510 STA 69
-0.8584 0.4496 -0.2037 HARMONIC EVERALL C	ANALY CYCLIC	OZ (SIS) LOA! USED	0.3C86 MODEL CL D = 0.2 1.	935E 8705 74022 15	SHIF E C4 LCAE	0.3698 33	T 01	10	123.422 CTR 20 L6200.00	FLT	13.0	TR 38	2 CHGR	D BEND	25.510 STA 69
-0.8584 0.4496 -0.2037 HARMONIC DVERALL C	ANALY CYCLIC	VSIS (CLOA)	0.3C86 MODEL CL 0 = 0.2 1. 0.3265	8705 74022 15	SHIFE C4	0.3698 33 0/IN US	T 01 ED J	03	123.422 CTR 20 16200.00 PHI'UC 58.389	FLT	13.0 PSIJC	TR 38	2 CHOR	D BEND	25.510 STA 69 FREJUÉNCY 2.551
-0.8584 0.4496 -0.2037 HARMONIC OVERALL C ERO POSI -0.1727 0.2009 0.7962	ANALY YCLIC TION 17421E 17421E 17421E 17421E 17421E	02 (SIS (CLOA) USED 03 03 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109	8705 74022 15 J	SHIFE C4 LCAE	0.3698 2 33 2/IN US 0.3834 0.1365	T 01 ED J	03	123.422 CTR 20 16200.00 PHI JC 58.389 305.674	FLT	13.0 PSIJC 58.389 52.837	CJ/CJ	2 CHOR	D BEND	25.510 STA 69 FREJUÉNCY 2.551 5.102
-0.8584 0.4496 -0.2037 44RMGNIC DV ERALL C 2 ERO POSI -0.1727 0.2009 0.7962 0.4799	ANALY CYCLIC TION 1421E 2553E 2834E 1033E	02 (SIS (LOA) USED 03 03 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109 -0.2491	935E 8705 74022 15 J 154E 208E 748E	SHIF E C4 LCAE	0.3698 2 33 2 / IN US 0.3834 0.1365 0.5407	T 01 ED J 016E	03 04 03	123.422 	FLT	13.0 PSIJC 58.389 52.837	CJ/C C.280 1.000 0.396	2 CHOR	9 10 	25.510 STA 69 FREJUÉNCY 2.551 5.102 7.054
-0.8584 0.4496 -0.2037 -0.2037 -0.2037 -0.1727 0.2009 0.7962 0.4799	ANALY CYCLIC ITION 17421E 2553E 2834E 1033E 6622E	02 (SIS LOA USED 03 03 03 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109 -0.2491 0.6679	935E 8705 74022 15 J 154E 208E 748E 502F	SHIF E C4 LCAE	0.3698 33 0/IN US 0.3834 0.1365 0.5407 0.9013	T 01 ED 016E 434E 358E 943F	03 04 03	123.422 	FLT	13.0 PSIJC 58.389 52.837	CJ/C C.280 1.000 0.396	2 CHDR MAX 1791 1790 C18	9 10 	25.510 STA 69 FREQUENCY 2.551 5.102 7.053 10.204
-0.8584 0.4496 -0.2037 HARMONIC DY ERALL C ERO POSI -0.1727 0.2009 0.7962 0.47999 -0.3996	ANALY CYCLIC TION 17421E 2553E 2834E 1033E 1662E 295E	03 USED 03 03 03 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109 -0.2491 0.6C79 -0.4304	935E 8705 74022 15 J 154E 208E 748E 502E 222E	SHIF E C4 LCAE 03 04 03 03	0.3698 33 37/IN US 0.3834 0.1365 0.5407 0.9013 0.8998	T 01 ED 016E 434E 358E 943E	03 04 03 03 03	123.422 	FLT	13.0 PSIJC 58.389 52.837	CJ/C C.280 1.000 0.396	2 CHOR 2 CHOR 791 1000 C18 152 902	9 10 U BEND	25.510 STA 69 FREJUÉNCY 2.551 5.102 7.024 10.204 12.755
-0.8584 0.4496 -0.2037 HARMONIC OVERALL C ERO POSI -0.1727 0.2009 0.7962 0.4799 -0.3996 -0.3996 -0.7902 -0.9712	ANAL\ CYCLIC ITION IJ 7421E 2632E 2632E 2632E 2632E 2933E	03 03 03 03 03 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109 -0.2491 0.EC79 -0.4304 0.1551	935E 8705 74022 15 J 154E 208E 748E 502E 222E	SHIF E C4 LCAE 03 04 03 03 02 01	0.3698 2 33 3 7/IN US 4 0.3834 0.1365 0.5407 0.9913 0.8998	T 01 ED 016E 434E 358E 543E 474E 891	03 04 03 03 02 02	123.422 CTR 20 16200.00 PHITC 58.389 305.674 332.561 116.320 2JR.576 178.849	FLT	13.0 PSIJC 58.389 52.837 J.854 19.050 1.715 19.838	CJ/C C.280 1.000 0.396 0.660 C.065	2 CHOR MAX 791 000 C18 152 902	9 10 D BEND	25.510 STA 69 FREJUÉNCY 2.551 5.102 7.053 10.204 12.755 15.300
-0.8584 0.4496 -0.2037 HARMONIC OVERALL C ERO POSI -0.1727 0.2009 0.7962 0.4769 -0.3996 -0.7902 -0.9736	ANALY CYCLIC TION 1421E 2553E 2834E 7033E 662E 2933E 2933E	03 03 03 03 03 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109 -0.2491 0.6C79 -0.4304 0.1551 -0.1892	8705 74022 15 154E 208E 748E 502E 205CE	SHIFE C4 LCAE 03 04 03 03 03 02 01	0.3698 33 7/IN US 0.3834 0.1365 0.5407 0.9013 0.8998 0.91843	T 01 ED 016E 434E 358E 9-3E 8-16 8-16 2-57E	03 04 03 03 02 02 02	123.422 CTR 20 16200.00 PHIUC 58.389 305.674 332.561 116.320 208.576 178.849 268.869	FLT	13.0 PSIJC 58.389 12.837 10.854 19.050 1.715 19.838 18.410	CJ/C. C.20(1.000 0.396 0.660 C.065	2 CHOR MAX 791 U00 C18 152 902 904 657	9 10 D 8 END	25.510 STA 69 FREJUÉNCY 2.551 5.102 7.053 10.204 12.755 15.300 17.057
-0.8584 0.4496 -0.2037 HARMONIC OVERALL C ZERO POSI -0.1727 0.2009 0.7962 0.4799 -0.3996 -0.3996 -0.7902 -0.9712	ANALY CYCL IC IT ION 1421E 25834E 2632E 2933E 2933E 2933E 2935E	02 USED 03 03 03 03 03 02 02 01 03	0.3C86 MODEL CL D = 0.2 1. 0.3265 -0.1109 -0.2491 0.EC79 -0.4304 0.1551	935E 8705 74022 15 154E 208E 748E 502E 222E 054E 548E 531E	SHIF E C4 LCAE 03 04 03 03 02 01 03 03	0.3698 33 7/IN US 0.3834 0.1365 0.5407 0.9013 0.8998 0.91843	T 01 ED 016E 434E 358E 943E 474E 871E 267E 313E	03 04 03 03 02 02 03 03	123.422 CTR 20 16200.00 PHI JC 58.389 305.674 332.561 116.320 208.576 178.849	FLT	13.0 PSIJC 58.389 12.837 10.854 19.050 1.715 19.838 18.410	CJ/C. C.280 1.000 0.399 0.660 C.065 0.071 0.138	2 CHOR MAX 791 U00 C18 152 902 904 657	9 10 D BEND	25.510 STA 69 FREJUÉNCY 2.551 5.102 7.053 10.204 12.755 15.300

Table III. (Continued)

TEST 13 N = 6		and the second					
HARMONIC ANALYSIS DV ERALL CYCLIC LGA			CTR 21 F	LT 13.0	TR 6 1 FL	AP BENÚ S	STA 43
ZERO POSITION USED	9.51	LCAD/IN USED	-41450.00	(FACTOR TH	IESE NUMBERS	BY 0.63	a) .
			PHIJC	PSTJC "	CJ/CJMAX		FREQUENCY
-0.1201e54E 05						•	
-0.1166902E 05	0.3661545E 04	0.1223000£ 0	5 162.579	162.579	1.000000	ì	2.611
0.7339137E 02	0.2821986E 04			44.255	0.230821	2	5.222
0.4026587F 03	0.1115066E C4			23.403	0.097246	خ	دده .7
-0.444809UE 02	0.4698+96E 0			23.852	0.038590		10.444
0.2015209E 03	0.7C67476E 0			3.856	0.017462	5	13.055
0.1335720E 04	-0.1513104E 0			58.923	0.109515	6	15.000
-0.3716233E 03	0.64948548 0			17.298	0.062013	7	10.277
0.2200694F 02	0.1625725E 0			10.236	0.013414	ö	20.888
-0.2575726E 02	-U.121C140E 03			28.615	0.010134	نو .	25.499
-0.4846028E 01	0.179370LE 02	2 0.1858014E 3	2 105.119	10.512	0.001519	10	20.110
				•	****		
MARMONIC ANALYSIS DV ERALL CYCLIC LOS			CTR 21 F	LT 13.0	TR 31 2 FL/	AP BENU S	STA 43
ZERO POSITION USE		LEAD/IN USED	25900.00				
-0.8072313E 04			OL 1H9		CJ/CJHAX	٠ ي	FREQUENCY
-0.5485715E 04	0.1202212E 04			167.639	1.030000	L	. 2.611
0.4517252E 02	0.9319019E 03			43.612	0.166135	2	5.222
0.3370537E 03 0.3673393E 02	0.5C22305E 03			18.711	0.107703	3	7.833
" 0.1050469E"03"	0.2354814E C3			20.283	0.042438		10.444
0.0683630E 03	-0.3090158E 0: -0.388788E 0			68.722	0.015498	ż	13.055
0.8246104E 02	0.4827795E 03			54.967	0.137701	0	15.060
-0.8851627E 02	0.1541352E 0			11.472	0.087211	7	18.277
-0.7745181E 02	-0.3450238E 02			14.783 22.658	0.031650	8	20.868
0.1231000E 02	-0.5289757E CZ				0.015098	•	23.499
			2 233.100	28.310	0.009671	10	26.110
			•				
HARMONIC ANALYSIS DV ERALL CYCLIC LOA		SHIP 33 T 010 C4	CTR 21 F	LT 13.0	TR 11 3 FLA	AP BENU S	TA 43
ZERO POSITION USED	8.27	LCAD/IN USED	-30400.00				
-0 92019145 04	<u>B</u> J	c1	PHI.7C	PSIJC	ZAMUJVLJ Z	J	FREJUENCY
-0.8301914E 04	0 34035545						
-0.4722363E 04	0.2682556E 03			176.749	1.000000	1	. 2.611
-0.4477385E 03 0.2791299E 03	0.46050566 03			67.097	0.135791	۷	5.222
0.7971255E 02	0.4956016E 03			20.204	C.120255	3	7.833
- 0.1363179E-02-	-0.1192145E 03			17.077	0.045595	<u> </u>	10.444
0.59563535 03	-0.1192145E 03	_		55.302	C.025368	5	13.055
-0.97529518 02	0.4548879E 03			57.786	0.129390	6	15.666
				14.586	0.098357		18.277
-0.1219 305E na	D. 19144726 44						
-0.1219305E 03	0.1814479E 03			15.435	C-046206	8	20.848
-0.1219305E 03 0.2277170E 02 -0.5767578E 01	0.1814479E 03 0.6335929E 01 -0.1009074E 03	0.2363667E 0.	2 15.548	15.435 1.728 26.673	0.004597 0.021368	9 10	26-110 20-000

Table III. (Continued)

TEST	г 13	N =	6	 (cont	INUED)			-									· · · · · · · · · · · · · · · · · · ·
					CL8705 0.20201			T 01	0			LT 13.0					
ZERO) PO\$ I	TION	USE	;	0.39	LCAC)/IN US	ED		-14150	.00						
					ВЈ		c	J ·		РН	I JC	PSIJC	CJ/	CJMAX	٠. ن	FAL	JUE VCY
	0.1912																
	0.4582				864385E		0.9978				.664			00000			2.611
	0.4809				900762E		0.8913				.907			93273	4		5.222
	0.8686				689845E		0.1900				. 794	20.931		90410	3		7.833
	3540				26 52 84E		0.4815				. 3)4			8 2 705	*		10.444
	0.1176				445033F		0.1453				. 642			45695			550.6
	0.4214				3755965		0.5399			141				41147		•	2.000
	0.5586				764167E		0.2820			_	. 574			82606			18.277
	0.5094				61 3390F		0.7580				. 227			75568			
	3.4559				690497E		0.4574				-626			45840	9		499
. '	0.4548	1972E	02		123123E	02;	0.5323	034F	32	25	• 020	2.502		50307	13		ro•1 to
												. •					
					CL9705 0.44418		P 33	T 01				FLT 13.3		2 CI	ORD BEND	SIA Z	·
ZERO) POS 1	TION	USED)	3.11	LCA	O/IN US	ED		-20300	. 00						
		,			ВJ		_			Su.	1 10	PSIJC	٠. ٠	CIMAV		60%	UENCY
	0.6573	-	•		63			. J		rn	130	L212C	CJ/	CJMAX	,	FRE	POENCY
	0.1112				152882E	03	0.1133		٠.	10	. 950	10.950		31500			2 411
	0.2791						0.2822				400			31599			2.611
	2728				123037E 798062E		0.3267				.611	94.230 108.870		15769			5.222 7.833
	9398				481210E		0.9404				879	89.470		33241			0.444
	0.6975				184043E					170		34.073		25069			
	0.6801				122097E		0.6808				. 629			24125	-		3.055
	0.1429																2.066
	3.5869				1115718		0.2550				. 130			90354			8.277
	3.3564				77 2853E		0.6977					4.091		24724	8 9		20.000
	0.1168				138585E 108741E		0.1240				.305	9.1 45 9.602		43568	19		23.499
`		7100	_02	0.1	1007412		0.1114	-016	03		.010	7.002		37303		····	20.110
HARP	MONIC	ANAL	 YSIS	MGJ EL	CL6705	SHI F	<u>.</u> > 33	 T 01	.o	CTR	21 F	LT 13.0	TR 38	2 CH	WRU BEND	STA 69	
OV EA	SALL C	ACT I	C LDA	D = 1	0.253911	LE C4										• •	
Z E RC					1.15		•										
	.1000	3186						J				PSIJC					
	3.4699				C00090E		0.5107				.053	23.053		32840			2.611
	2025				22 21 OBE		0.1534				. 325	94-163		30000	2		5.222
	2025				C74001E		0.2292				. 060	110.687		49369	3		7.633
).7118				907166E		01.102				.652	88.415		66749			0.444
	7.4485				901230E		0.4871				. 028	31-436		31744	5		3.055
	1.4221				076951E		0.4280				.483			27891	. •		5.000
	0.1240				707543E		0.2110				. 194			37529			8.277
	3.2943				90474UE		0.3002				. 341			19566	8		0.668
).7058 3.7103				71 00958		0.9079				.973	4.330		59160			3.499
`	2.2102	. +35F	uZ	0.1	100652E		0.1120	つうもた	03	79	. 196	7.919	0.0	73C20	10		6. LTO

Table III. (Continued)

TI	FST	13	M =	7

HARMONIC ANALYS			SHI E C5	P 33	T	010	CTR	22 F	LT 13.0	TR	6	1 FLAP	BEND	STA 4	•3
ERO POSITION L	ISED	9.51	LCA	D/IN US	50		-41450.	00	(FACTO	THES	SE N	JMBE RS	BY 0	.638)	
UA"		BJ		c	٠, د		PHI	JC	PSIJC	٠ .	1/61	MAX	٠,	Fi	(EBUEACA_
-0.1032904E (7184699E	06	0.1948	3441	c .5	158.	340	158.360		.000	000			2.577
0.9674773E		3742359E		0.1746					37.75	_	.198			• •	5.155
0.29871706		1128610E	-	3.1167					25.05		.055		1		7.732
0.73945318		1 C1 42 95F	-	0.1316				833	21.45		.052	-	-		10.132
0.9521+0EE		3232726E		0.1014				572	3.71		.005		···· · · · · · · · · · · · · · · · · ·		12.807
0.1285391E		7655377E		0.1497	-			773	5.12		.076		6		12.454
-0.14071735		3797549E		3.4349					15.76		.020		1		18.041
-0.1738099E		9136523E	-	0.2142					19.34	_	.010		8		20.619
0.1060223E		5656520F		0.1201					36.88	_	.006		9		23.196
0.1704578E		2595338E		0.2600					27.37		.013		10		25.773

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 22 FLT 13.0 TR 31 2 FLAP BEND STA 43 DV ERALL CYCLIC LOAD = C.120175E 05

	ZERO POSITION	USED	3.75		LCAD/IN USED		25900.00				
	LA		aj.		. CJ		PHIJC	DLIZA	CJ/CJMAX	· ·	FREQUENCY
	-0.6862270F	04									
	-0.9276281E	04	0.4134906E	04	0.10156126	J5	155.975	155.975	1.000000		2.577
	0.8458545E	03	0.15766C7E	04	0.1789178E	04	51.786	30.893	0.176167	٠ ء	5.155
	0.3587007E	03	0.5624058E	03	0.6670579E	03	57.470	19.157	0.065680	•	7.732
	0.1666325E	03	0.5933250E	03	0.61627986	03	74.313	18.578	0.060681	4	10.309
_	0.1070715E	03	-0.551.0645E	02	0.1458985€	ົງ3	317.212	63.442	C.014366	5	12.007
	0.1125927E	04	-0.5828384E	02	0.113043JE	34	357.044	59.537	0.111305	b	15.464
	0.19927958	20	0.1903791E	03	0.1714193E	23	84.024	12.003	0.018849	7	10.041
	-0.2269747E	03	0.1274832E	03	0.2603257E	03	150.679	18.835	0.025632	' ' ' ' ' ' ' ' ' ' ' '	20.617
	-0.3278233E	02	-0.5965936E	02	0.6810840£	02	241.228	26.803	0.006706	9	23.196
	-0.9843381E	20	-0.1C90022E	03	0.1468696F	03	227.917	22.792	0.014461	10	25.773

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 22 FLT 13.0 TR 11 3 FLAP BEND STA 43 DVERALL CYCLIC LDAD = C.108504E 05

ZERO POSITION	USED	8.27		LCAD/IN USED	-	30400.00	,			•
		ВЈ				PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.6759570E										
-0.89970368	-	0.2571130E	04	0.93572586	34	164.051	164.351	1.000000	1	2.577
3.31919806	03	0.1221212E	Q4	0.1262241E	14	75.352	37.676	0.134694	2	5.155
0.2831472E	03	0.6C01929E	03	0.6436292E	03	64.7+4	21.501	C.070921	. 3	7.732
0.1114514E	03	0.5517144E	03	0.56285896	03	78.579	19.045	C.060152	4	10.309
0.10771348	.03	-0.TTT2554E	02	0.1062865E	ື ວ 3	354.103	70.821	0.011572	5	12.557
0.8872246E	03	.0.5442715E	03	U.1040864E	J4	31.527	5.255	0.111236	6	15.464
-0.1763849E	03	0.2691719E	03	0.3218152E	03	123.236	17.635	0.034392	7	18.041
-0.1187117E	03	0.6192057E	01	0.118873JE	03	177.014	22.127	C.012734		20.019
0.9935503£	05	-0.5041450E	01	U.9948282E	02	357.095	39.677	0.010632	9	23.196
-0.1060432E	03	-0.1711529E	03	0.2013417E	J 3	238.218	23.822	0.021517	10	25.773

Table III. (Continued)

TEST 13 N -	7 (CONTINUED)	F ***	•						
HARMONIC MALY	/SI5 4	00EL CL8705	SHI	P 33 T (010	CTR 22 F	LT 13.0	TR 41 2 FL	AP SEND	STA 118
DI ERALL CYCLIC	CACL	= C.3162C	LE C4					•	• .	
ZERO POSITION										
-0.1710562E		BJ			•	PHIJC	PSIJC	CJ/CJMAX	٠,	FREQUENCY
-0.1328 659E		-0.3395593E	03	0.13714028	04	194.336	194.336	1.000000		2.577
0.50483576						54.607			• 2	2.577 5.155 7.732
-0.4929414E	02	U.2697615E	03			100.355	33.452	C.195562	د	7.732
-0.2010436E	03	0.E4268+1E	03	J.36633426	: 03	103.419	25.855	. 0.631714		10.309
0.2317623E	02	0.1124917E	03	0.11485446			15.672	0.631714	· · · · · · · · · · · · · · · · · · ·	12.887
-0.6675984E	03	0.2143445E	03	0.70116418	03	152.200	27.033	0.511275 C.082573	۰	12.404
-0.1931857E		-0.1137728E		J.1137±926			38.432	C.082973	7	10.071
0.1119227E		-0.6593462F		0.12990026			41.197			
0.42471015		-0.1117653E		0.4391593					. 9	. 23.196
0.7204785E	02	0.3595786E	⁻ 00	0.72048748	02	0.296	0.329	0.052537	<u>lu</u>	25.773
								. '	,	
							_			
							_			
HARMONIC ANALY Dyerall cyclic			5HI 7E C4	P 33 T 0	10	CTR 22 FI	T 13.0	TR 34 2 CH	IORU BENU	STA 21.
ZERO POSITION	USED	3.11	LCA)/IN USED		-20300.00	. "			المائية في المائية الموادية
0.6206699E	04									FREQUENCY
0.1351003E -0.7126039E	04	-0.2170337E	03	0.13683256	U4	350.874	350.874	0.197533	1	2.577
-0.7126039E	04	0.1567676E	04	0.72964416	04	167.593	83.796	1.000000		6 145
0.4384028E	03	-0.3620674E	03	0.56859576	03	320.447			3	5.155 7.732
0.2702425E	04 -	-0.1403790E	04	0.30452806	04	332.550	83.138	0.417365		7.732 10.309
~-0.5236870E	02	0.16687435	03	J.1190152	03	116.105	83.138 23.221	C.016311	5	14.687
-0.6645U93E	02	0.49257286		0.32724468		143.456	23.939	C.011338	` e .	= 15.464
0.3941577E	02	-0.1886516E	C3	0.1925232E	03	281.510	40.216	0.026386	7	18.041
0.8424310E	02		02	0.12959128	03	49.453	6.132	0.017761	8	20.619
-0.1814157E		0.1362096E		0.13741246			10.943	0.018833	9	196 . د 2
0.4357306E	<u>02 ·</u>	-0.1C85462E	03	0.1173366E	03	291.799	29.180	0.016081	10	20.619 23.196 25.773
						. •				
HARMONIC ANALY	SIS MO	DEL CL9705 = 0.550556	SHIP BE G4	9 33 T.O	10	CTR 22 FL	T 13.0	TR 38 2 CH	ORD BEND	STA 69
ERO POSITION	USED	1.15	LCAD	IN USED		16200.00				•
AJ		Б.Т		cJ		PHIJC	PSIJC"	CJ/CJMAX_		FREJUENCY
-0.2558645E										
0.7022883E		0.7C64893E				5.745			1	2.517
-0.3946170F	04	0.1C48076E		0.4082979E			32.563	1.300000	2	5.155
0.24977196		-0.2728711E		0.3699250E		312.409	104-156		3	7.732
0.1966137E -0.3945155E		0.1181909E		0.2294036E		328.939	82.247 30.137	C.561853_		10.309
0.10043238		-0.4329591E		0.44098328						12.887
0.1757054E		0.1772539E		U.10936725 U.2495830E		336.679 314.749	56-113	0.026786		15.404
0.29136558		0.3944615E		J.4904015E			44.964		•	18-041
0.378J176E		0.17895166		J. 1 329005E		53.549 78.072				20.619
0.5674953E		0.4449975E		J.7211549E		321.899	32.190	0.017662	In A	. 23.196 . 25.773

Table III. (Continued)

NARMONIC ANALYSIS M			P 33 T 0	10	CTR 23 F	LT 13.0	TR 6 1 FLA	AP BENU ST	A 43
ERO POSITION USED	9.51	LEA	D/IN USED		-41450.03	(FACTOR T	HESE NUMBERS	BY 0.638)
	BJ		CJ		PHI JC	PSIJC	XAMLD\LD		FKEJUENLY
-0.1486583E 05									
0.5029312E 03	0.1703114E		0.1775819E			73.548	1.000000	Ţ	2.591
0.1925406E u3	J.1476757E		0.2427314E			18.737		ê	5.161
0.78436436 03	0.3572144E		U.8792258E			8.953	0.493110	3	7.772
-0.5779352E 02	-1.2576235E		U.363990ZE			64.617	0.234970	. 🐈	10.202
0.1467607E 03	-J.284c382E		3.32024615			59.455	0.100337	خ	12.953
0.6705979E 03	-3.1230130E		0.6836521E			58.130		6	15.544
-0.3157793E 23	0.671 5803F		0.74211655			16.455		,	10.135
	0.11249716		J.2278557E			19.832		ø	20.725
-0.3565534E 02	-0.1403199E		J.1449309E			28.437		10 3	45.013
-0.1298991E 02	-0.1755259E		0.1760059E		265.767	26.577	0.099113	10	25.907
			P 33 T 0	10	 CTR 23 F	LT [3.0	TR 31 2 FL	AP BEND ST	A 43
VERALL CYCLIC LDAG	3.75	ZE 04 LEA	D/IN USED		CTR 23 F	LT 13.0	TR 31 2 FLA	AP BEND ST	A 43
VERALL CYCLIC LOAG ERO POSITION USED	0.30546	ZE 04 LEA				LT 13.0 PSIJC	TR 31 2 FLA		A 43 PREJUENCY
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04	3.75 BJ	ZE C4 LCA	D/IN USED		25900.00 PHI JC	PSIJC	CJ/CJMAX		tkejneve,
VERALL CYCLIC LOAD ERO POSITION USED - AJ0.9962395E 04 0.1592598E 04	3.75 BJ -0.9274277E	2E 04 LEA	D/IN USED CJ 0.1842957E	. 34	25900.00 PHI JC 329.786	PSIJC 329.786	CJ/CJMAX 000000		FREJUENÇY
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 -0.1592598E 04 -0.1010375E 04	3.75 3.75 BJ -0.9274277E -0.2053131E	2E 04 LCA 03 03	D/IN USED CJ 0.1842957E 0.1031024E	04	25900.00 PHI JC 329.786 191.486	PSIJC 329.786 95.7+3	CJ/CJMAX 1.000C00 0.559440	<u>t</u>	FREJUENCY 291 5.181
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03	3.75 BJ -0.9274277E -0.2053131E 0.4288734E	2E 04 LCA 03 03 02	D/IN USED CJ 0.1842957E 0.1031024E 0.4901785E	J4 04 03	25900.00 PHI JC 329.786 191.486 : 5.019	PSIJC 329.786 95.7+3 1.673	CJ/CJMAX 1.000C00 0.559440 0.265974		" AKEJUENCY 2.>91 5.181 7.772
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510089E 03	3.75 BJ -0.92742776 -0.42887346 -0.30968266	03 03 03 02 03	O.1842957E 0.1031024E 0.4901785E 0.3445338E	J4 04 03 03	25900.00 PHIJC 329.786 191.486 5.019 244.005	PSIJC 329.786 95.7+3 1.673 61.001	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549	<u>1</u> 2 3	2.591 2.591 5.181 7.772 10.363
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510089E 03 -0.6996310F 02	3.75 3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3096826E -0.1711153E	03 03 03 02 03 02	0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1446055E	J4 04 03 03 03	25900.00 PHI JC 329.736 191.486 5.019 244.005 247.702	PSIJC 329.786 95.7+3 1.673 61.001 49.552	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 0.100309	Ł 2 3 4 2	PRÉJUENCY 2.591 5.181 7.772 10.365 12.955
VERALL CYCLIC LOAGERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892566E 03 -0.1510087E 03 -0.6996310E 02 0.4000523E 03	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3050826E -0.1711153E -0.4465457E	03 03 03 02 03 03	O.1842957E 0.1031024E 0.4901785E 0.3445338E 0.10448054	04 04 03 03 03 03	25900.00 PHI JC 329.766 191.486 5.019 244.005 247.762 311.732	PSIJC 329.786 95.7+3 1.673 61.001 49.552 51.955	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 C.100309 C.326136	2 3 4	2.291 3.181 7.772 10.363 12.953
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510089E 03 -0.6996310F 02 0.4000523E 03 0.2294471E 03	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3056826E -0.1711153	03 03 03 03 02 03 03 03 03	CJ 0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1648059 0.6160496E	J4 04 03 03 03 03 03	25900.00 PHIJC 329.786 191.486 5.019 244.005 247.762 311.732 58.133	PSIJC 329.786 95.743 1.673 61.001 49.552 51.955 9.733	CJ/CJMAX 1.000C00 0.559440 0.265974 0.186949 0.100309 C.326136 0.334272	2 3 4	FREQUENCY 2.>91 5.181 7.772 10.363 12.953 15.544 18.135
-0.9962395E 04 0.1592558E 04 -0.1010375E 04 0.4892586E 03 -0.1510089E 03 -0.6996310E 02 0.4300523E 03 0.2299471E 03 -0.3418803E 02	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3096826E -0.1711153E -0.4465457E 0.5717266E 0.2628525E	2E 04 LCA 03 03 03 02 03 03 03 03	0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1848655E 0.6010549E 0.6160496E 0.2650664E	04 03 03 03 03 03	25900.00 PHIJC 329.786 191.486 5.019 244.005 247.762 311.732 58.133	PSIJC 329.746 95.743 1.673 61.001 49.552 9.753 12.176	CJ/CJMAX 1.000C00 0.559440 0.265974 0.186949 C.100309 C.326136 0.334272 0.143827	1 2 3 4 5 5 7 8 8	2.291 5.181 7.772 10.363 12.953 15.544 18.135 20.725
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510087E 03 -0.6996310E 02 0.4000523E 03 0.229471E 03 -0.3418803E 02 0.1473229E 02	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3096826E -0.1711153E -0.4465457E 0.5717266E 0.2628525E 0.4795138E	03 03 03 02 03 03 03 03 03 03	0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1446050E J.6010549E 0.265066E 0.1549397E	J4 04 03 03 03 03 03 02	25900.00 PHI JC 329.786 191.486 5.019 244.005 247.762 311.732 58.133 97.411 18.028	PSIJC 329.786 95.743 1.673 40.031 49.052 51.955 9.733 12.176 2.003	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 0.100309 0.326136 0.334272 0.143E27	2 3 4 5 7	2.291 5.181 7.772 10.363 12.953 15.544 18.135 20.725 23.316
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510007E 03 -0.6996310E 02 0.4000523E 03 0.2294471E 03 -0.3418803E 02	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3096826E -0.1711153E -0.4465457E 0.5717266E 0.2628525E	03 03 03 02 03 03 03 03 03 03	0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1848655E 0.6010549E 0.6160496E 0.2650664E	J4 04 03 03 03 03 03 02	25900.00 PHI JC 329.786 191.486 5.019 244.005 247.762 311.732 58.133 97.411 18.028	PSIJC 329.746 95.743 1.673 61.001 49.552 9.753 12.176	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 C.100309 C.326136 0.334272 0.143627	1 2 3 4 5 5 7 8 8	2.291 5.181 7.772 10.363 12.953 15.544 18.135 20.725
VERALL CYCLIC LOAGERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510087E 03 -0.6996310E 02 0.4000523E 03 0.229471E 03 -0.3418803E 02 0.1473229E 02	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3096826E -0.1711153E -0.4465457E 0.5717266E 0.2628525E 0.4795138E	03 03 03 02 03 03 03 03 03 03	0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1446050E J.6010549E 0.265066E 0.1549397E	J4 04 03 03 03 03 03 02	25900.00 PHI JC 329.786 191.486 5.019 244.005 247.762 311.732 58.133 97.411 18.028	PSIJC 329.786 95.743 1.673 40.031 49.052 51.955 9.733 12.176 2.003	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 0.100309 0.326136 0.334272 0.143E27	2 3 4 5 7	2.291 5.181 7.772 10.363 12.953 15.544 18.135 20.725 23.316
VERALL CYCLIC LOAD ERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510087E 03 -0.6996310E 02 0.4000523E 03 0.229471E 03 -0.3418803E 02 0.1473229E 02	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3096826E -0.1711153E -0.4465457E 0.5717266E 0.2628525E 0.4795138E	03 03 03 02 03 03 03 03 03 03	0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1446050E J.6010549E 0.265066E 0.1549397E	J4 04 03 03 03 03 03 02	25900.00 PHI JC 329.786 191.486 5.019 244.005 247.762 311.732 58.133 97.411 18.028	PSIJC 329.786 95.743 1.673 40.031 49.052 51.955 9.733 12.176 2.003	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 0.100309 0.326136 0.334272 0.143E27	2 3 4 5 7	2.291 5.181 7.772 10.363 12.953 15.544 18.135 20.725 23.316
VERALL CYCLIC LOAGERO POSITION USED AJ -0.9962395E 04 0.1592598E 04 -0.1010375E 04 0.4892586E 03 -0.1510087E 03 -0.6996310E 02 0.4000523E 03 0.229471E 03 -0.3418803E 02 0.1473229E 02	3.75 BJ -0.9274277E -0.2053131E 0.4288734E -0.3656826E -0.1711153E -0.4465457E 0.5717266E 0.2628525E 0.4795138E -0.9619183E	03 03 03 02 03 03 03 03 03 03 03	CJ 0.1842957E 0.1031024E 0.4901785E 0.3445388E 0.1048605E 0.6100496E 0.2650664E 0.154937E 0.1605808E	J4 04 03 33 33 33 33 02 03	25900.00 PHIJC 329.766 191.486 5.019 244.005 247.762 311.732 58.133 97.411 18.028 216.800	PSIJC 329.786 95.7+3 1.673 61.001 49.552 51.955 9.733 12.176 2.003 21.660	CJ/CJMAX 1.000C00 0.559440 0.265574 0.186549 0.100309 0.326136 0.334272 0.143E27	1 2 3 4 2 7 8 9	2.991 5.181 7.772 10.363 12.953 15.544 18.135 20.725 23.316 25.907

-0.1079762E 04 -3.7434016E 03 0.1719182E 03 -0.2540995E 03 -0.3759064E 02 0.2415337E 04 0.9225352E 03 0.4915032E 03 0.3118511E 03 0.4065527E 02 0.2161107E 04 -0.5462830E 03 0.4497661E 03 333.452 333.452 1.000000 Ş 2.591 233.690 116.845 6.973 72.356 C.381870 5.181 0.199311 7.772 10.363 12.953 0.1037133E 03 -0.1548535E 02 289.425 247.6[] 49.522 0.016829 0.6025117E 03 -0.4130501E 02 0.4350693E 02 -0.1796708E 03 -0.4899424E 02 0.2678268E 03 0.2574363E 03 -0.1338989E 62 -0.2364036E 03 0.6044922E 03 0.2119917E 03 0.2611035E 03 0.1801689E 03 355.360 59.227 0.250221 15.544 101.241 80.396 134.262 14.403 0.087709 18.135 10.048 20.474 25.113 C.108C80 O.074578 20.725 23.310 -0.8080051E 02 0.103414 0.2498307E 33 251.130

-0.9566367E 04

Table III. (Continued)

TEST 13 N = 8	(CONTINUED)						**
HARMONIC ANALYSIS	MODEL CL8705	SHIP 33 T 010	CTR 23 1	FLT 13.0 1	TR 41 2 FLA	P BEND S	TA 118
JVERALL CYCLIC LOA	C * 0.254718E						
ZERO POSITION USED	0.39	LCAD/IN USED	-14150.00	• .	,		
AJ		сյ	РH1 JC	PSIJC	CJ/CJMAX .	.	FREGUENCY
-0.2187516E 04				•		•	
0.1031160E 04	-0.1323777E 0				1.000000	. 1	2.591
-0.1308650F 03	0.4401704E 0				G.273667	4	> : Rj
0.2651213E C3	0.6917555E C			6.197	C.166697	3	7.772
-0.4706633E 03	-0.4457388E C			55.861	0.386314		10.363
-0.5598196E 02 -0.1561094E 03	0.2875028E 0			21.505 19.937	0.110793	2	12.953
-0.1929081F 03	-0.3999172E 0				C.198C85 0.262C74	· 6	15.544
-0.1257229E C2	-0.1C31722E C				0.061940		18.135 20.725
0.1062324E 03	-0.2657014E 0				C.005259	. 9	20.125
0.6974170E 02	-0.3191185E 0				C.045707	LU	25.907
					0.012701		
					•		
		•			• •		*
		•					
ARMONIC ANALYSIS I ALL DIDYY DIAPRAY			CTR 23 F	ELT 13.0 1	TR 34 2 CH0	RD BEND	STA 21.
ERO POSITION USED	3.11	LCAD/IN USED	-20300.00				
A1		CJ ~.		. 05116	CJ/CJMAX		r Tanan sa sa sa sa sa sa sa sa sa sa sa sa sa
0.6990094E 04	5.	LJ .	PHIJU	PSIJU	CJ/CJMAX	,	FREJUENCY
0.6351433E 03	0.3414783E 0	3 0.7211201E 0	3 28.254	28.254	0.138844		2.541
0.4329055E 04	-0.286°561E 0				1.000000	}	5.181
0.6384324E 03	-0.318C374E 0			111.735	C.146CL1	. 3	7.172
-0.1580792E 04	0-1637942E 0			33.476	0.438285		10.363
0.1776472E '03 "	-0.6566596E O			67.706	0.036754	-	12.953
-0.9784570± 02	0.1546050E 0			19.449	0.041539	6	15.544
-0.3325172E 02	-0.1709159E 0			36.999	0.033525	7	16.135
-0.1337745E 03	0.9595073E 0			17.155	0.027213	<u>'</u>	20.745
-0.4457359E 02	-0.7248253E 0	2 0.8509145E 0		26:490	0.016383	ÿ	23.310
-0.1514171E 02	-0.2076117E 0	2 9.2569626E 0	2 233.896	23.390	0.004548	LŪ	25.907
							==================================
		•					
ARMONIC ANALYSIS I VERALL CYCLIC LDAI	10DEL CL8705) = 0.472625E	SHIP 33 T 010	CTR 23 F	LT 13.0 T	'R 38 2 CHOI	SD REND	STA 69
ERO POSITION USED	1.15	LCAD/IN USED		•		*	
	£1	c	PHIJC	PSIJC	CJ/CJMAX		FREJUENCY
0.2525759E 03				•	•		
0.29735778 03		0.5339060E 0		57.438	0.169523	1	2.591
0.2508281E 04	-0.1904642E 04				1.000000	∠ .	2.181
0.4218076F 03	-0.2742942E 03			108.988	0.159757	3	7.772
-0.85513180 03	0.1350794E 0			30.584	0.507615		10.363
0.7668933E "03 ""	-0.1029301E 03			65.667	0.062259	5	12-953
0.4442342E 01	0.6355239E 02			14.334	C-020241	•	15.544
0.3477843E 02	-0.2355450E 03			39.771	0.075600	7 :	18.135
-0 32404000 02							20.725
-0.3269690E 02	0.1235674E 03			12.964	0.043791	ĸ	
-0.3269690E 02 -0.4710669E 02 0.1334283E 02	-0.6799934E 02 0.1434115E 03	2 0.8272212E 0	2 235.288	26.143 8.458	0.043791	9 10	23.310

Table III. (Continued)

TEST 13 N =	9									
YJANA DINCHAAL) 33 T (010	CTR 24 FL	T 13.0	TR 6 1 FLA	ה מדווח 7	TA 43
DA EMPTE CACTIO	CAD)	= 0.12607 4	E C5							
ERO POSITION	USE	9.51	LCAD	D/IN USED				THESE NUMBERS	BY 0.03	8)
		BJ BJ				PH1 JC	OL129	XAMLONLO		FREJUÉNCY
0.2408651E			04	0.00000000	- ~	2.4.401	344 454			
0.8558516E		0.2342809E		0.68733836			344.691		ŗ	2.481
-0.2622479F		J.42572375		0.1012239			115.410		4	4.903
0.1011344E -0.1896319E		3.7352255E		0.7573506			117.176 53.875		<u>د</u> ب	7.444
-0.37353595		3.1443976E		0.40047801			+3.227			9.920
0.472038LF		0.6519617E		3.8049063			50.934		,	14.800
J.4721875E		3.11816605		0.1272509			9.745		7	17.370
-0.1213003E		U.28J5554F		0.1245025			24.128			14.921
-0.1887188E		0.1524444E		0.2425985			24.326			22.33
-J. 1628472E		0.1383212E		0.2136632			22.034		10	24.814
									· · · · · · · · · · · · · · · · · · ·	
			_			,				
ARMONIC ANALY	STS MO	DEL C18705	SHIF	32 7	010	CTD 34 EI	T 13.5	TR 31 2 FLA	0 0 E N C - 2 1	
VERALL CYCLIC				, ,, ,	010	CIR 24 FL	., 13.3	TR SL 2 PLA	P BENU 3	14 43
ERO POSITION				/IN USED		25900.00				
LA		" BJ		CJ		PHIJC	PSIJC	CJ/CJMAX	,	FREQUENCY
-0.1111866E	כט									
0.6185465E		0.3524601E		0.7119184			330.324	1.000000		2.481
-0.2730993E		0.1588493E		0.33782281			108.030		2	4.963
0.6519604E		0.29264658		0.7146289			111.942		3	7.444
-0.3299312F		0.4457029E		0.5545317			58.372			9. 926
-3.2279325E		3.3502838E		0.23060831			37.747		>	12.407
0.1475769E		0.6194063F		0.6367441			+7.234		•	14.550
0.7267290E		0.4713008E		0.86634301			4.708		7	17.370
-0.1755859E		0.1131840E		0.20690446			18.399		0	19.851
-0.12641498		0.2436989E		0.12874251			21.212		9	22.333
-0.1150561E	- 20	0.1744020E		0.1163704		188.619	18.852	0.016346	10	24.814
YARMA SINCHRA	SIS MO	DEL CL8705	SHIP	 23 T (213	CTR 24 F1		TR 11 3 FLA	P AFAD CI	
VERALL CYCLIC									31	- 7 <i>3</i>
ERO POSITION	USED	8.27	LCAD	VIN USED		-30400.00				
AJ	~	BJ		<u>C1</u>		PH1 JC	PSIJC	CUZCUMÁX	 -	FREJUÉNCY
-0.1044346E			•							
0.7153582F		0.3571496E		0.81820826			330.962		1	2.481
-0.2263642F		0.28578358		0.36457236			115.839	0.445574	4	4.963
0.7092150E		0.11287146		0.71814456			116.986	0.037770	3	7.444
-0.1891 645E		3.4C01243E		0.44258626			61.174	0.054092		9.926
-0.1096985E		0.1758484E		0.20725938			47.509		5	12.407
0.30729968		3.3670115F		0.47867558		309.939	51.657	C.058503	•	14.858
0.275÷143E		0.5306440E		0.59833718			8.940	0.073091	7	17.370
-0.1089648E		0.1963154E 0.3396741E		0.22452868		119.032	14.879	0.027441	6	19.051
-0.1696111E		ノ・コンソビリサルと	UZ	0.17297898	: U3	158.675	19.742	0.021141		22.333

Table III. (Continued)

TEST 13 N =) (CONT	INUED)								
								 		
HARMONIC ANALYS OVERALL CYCLIC					010	CTR 24	FLT 13.0	TŘ 41 2 F	LAP BEND	214 118
ZERO POSITION U	SED	0.39	LCA	O/IN USED)	-1+150.00				
		ВЈ				PHIJC	PSIJC	CJ/ČJMAX		FREJUENCY
-0.2343158E 0	4						, 5.00	(0) (0)	` •	
0.1994776E U		834594E		0.271914	1E 04	317.395	317.395	1.00000		2.481
-0.8155023F 0		3u2055F		0.847467					2 2	4.903
0.3565278E 0		591989E		0.358263					ذ ا	7.444
-0.6612673E 0		201045E		0.841298						9.940
-0.8939EE7E 0		el 7765E		0.131778					-	12.407
-0.4701523E C		943206E		0.397113						14.000
-0.4057627E 0		644775E		0.437631						17.370
0.4026195E 0 -0.4168423E 0	2 -0.1	16 9630E 20 13 92E		0.125591						14.021
0.51751756 0		201342E 394864E		0.521806						22.3
0.21.21.25 0				0.747576	UE UZ	313.809	31.391	0.027584	10	24.814
HARMONIC ANALYS DV ERALL CYCLIC (P 33 T	010	CTR 24	FLT 13.0	TR 34 2 C	HURU BĒND	STA 21.
ERO POSITION, U	SED	3.11	L CA	D/IN USED		-20300.00				
Y.J		. aJ		ĹĴ		PHI JC	PSIJC	CJ/CJMÁX	ند	FREJUENCY
0.6721316E 0	4							CO7 CO1.11.X		
0.6097388E 0		529678E	03	0.823137	OE 03	42.205	42.205	0.109161	. 1	4.481
0.5902750E 0	4 -0.4	692355E	04	0.754059						4.963
0.1341189F 0	4 -0.E	653896E	03	0.149717	45 04					7.444
-0.2372835F 0	4 0.3	154906E	04	0.394761	2E 04	126.947	31.737	0.523514	4	9.926
0.4682856E 0.		C957JEE	C3 '	0.551351	16 03	326.532	05.336	0.074445	5	12.407
-0.6487196E 0	1 0.6·	45 L 9 6 4 E	02	0.648449	2E 02	95.742	15.957	0.008599	6	14.608
-0.1850442F 0		622102E		0.246076	2E 03	221.238	31.625	C.032634	7	₹ 17.370
0.7897559E 0		588628E		0.805575	1E 02	348.626	43.578	G.010683	8	19.851
0.1138544E 0		544714E		0.133363	LE 03	31.382	3.437	0.017686	9	22.333
0.4918880E O	2 -0.50	0001835	02	0.701407	0E 02	.314.530	31.453	0.009302	. 10	24.814
						•				
ARMONIC ANALYS				P 33 T	010	CTR 24	FLT 13.3	TR 38 2 C	HURD BEND	SIA 69
VERALL CYCLIC I					•					
ERO POSITION US	SED	1.15	T CA	D/IN USED		16200.00			•	•
0.1082848E 0		вЈ		C1		PHIJC		CJ/CJMAX	, j	FREQUENCY
0.1244987E 0		89407E		J.7000994		79.757				2.481
0.3191106E 04		57547E		0.441947					_	4.903
0.8070522E 0		69639E		0.947790		328.376		0.214458	-	7.444
-0.1281501F 04		55 5597F		J.286247		116.596	29.149	0.647697		9.926
0.2131407E 03		45070E		0.295384		316.184			-	12.407
-0.2673337E 02		33554 BE		0.324283		214.474		0.007338		14.888
-0.4584599E 02		1569585		0.3190078		251.736		0.072182		17-570
0.72207295 02		11 2508E		0.896446		36.343		0.020284		19.651
O. BIOSTOSE AT										
0.3105785F D2		07028E		0.3409637		335.628 279.376	37.292 27.938	0.007715		22.333 24.814

Table III. (Continued)

·									,	
HARMONIC ANALYSIS		SHI	P 33	3 T	010	CTR 25	FLT 13.0	TR 6 1 FL	LAP BEND	STA 43
DVERALL CYCLIC LDA	D = 0.c31830	E 04								
ZERO POSITION USED	9.51	LC	0/IN U	JSED		-41450.00	(FACTOR	THESE NUMBER	S BY 0.63	53)
				CJ		PHIJO	PSIJC	CJ/CJMAX	_. .	FREJUÉNCY
-0.1374049E 05										
-0.4248273E 04	0.3198835E	04	0.531	17930	E 04	143.02	1 143.02	1.000000	1	2.584
0.5916665E 03	0.96834965	03	0.113	34803	F 04	59.57	5 29.23	7 0.213391	2	5.168
0.7765830E 03	0.68694435	03	0.103	36307	E)4	41.43	5 13.83	2 0.174965	3	7.752
0.4145105E 02	-3.57779728	02	0.711	11037	E 32	305.55	6 75.41	4 0.013372	4	10.336
-0.1133682F 03	-0.1312586E	C3	0.173	34392	E 03	229.19	3 45.83	7 0.032614	" ` ` > `	12.920
0.9377100E 03	-0.5255728E	02	0.939	91815	E 33	3 356.79	2 59.46	5 C.176607	٥	15.504
-0.3309523E 03	3.576±384F	03	J.664	47857	£ 33	119.64	7 17.12	1 0.125038	7	18.060
0.1576947E U3	0.63292636	02	0.15	19222	E 03	21.35	9 2.73	4 0.031953	٠ .	20.072
-0.2821180E 00	-0.1869017E	03	0.188	39019	E 33	269.71	4 29.99			23.250
-0.6273480E 02	-0.1475110E	03	C.160	D2 9 7U	E 33	246.96	J 24.69	6 0.030143	10	۷۶.840

MARMONIC ANALYSIS MUDEL CL8705 SHIP 33 T 010 CTR 25 FLT 13.0 TR 31 2 FLAP BEND STA 45 DVERALL CYCLIC LDAD = 0.273310E C4

1 5	RO POSITION	USED	3.75		LCAD/IN LSED		25900.00	-			
			BJ		CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREJUENCY
	-0.8843539E	04									
	-0.8058526E	03	0.7301582E	03	0.1087478E	04	137.822	137.822	1.000000	ı	2.584
	-0.4914880F	03	-0.3214307F	03	0.5872632E	03	213.184	106.592	0.540023	٠ ٧	5.108
	0.3503643E	03	0.1430280E	03	0.3764336F	03	22.207	7.402	0.347592	3	7.752
	-0.5861154E	02	-0.20624036	03	0.2144071E	03	254.135	63.534	0.197160	4	10.336
	-0.1107139E	~03 ~	-0.1434164E	03	0.18117905	03	232.333	46.467	C.166605	5	14.920
	0.53613098	03	-0.49859895	03	0.7321455E	03	317.377	52.846	0.673251	6	15.504
	0.6758755E	02	0.5809646E	03	0.58438316	33	83.364	11.939	0.537834	7	18.000
	0.6370984E	02	0.37550666	02	U.7395264E	`J2	30.515	3.814	0.068004	8	20.072
	-0.4459450E	02	-0.2409146E	02	0.5068597E	02	208.379	23.153	0.046609	9	23.256
	-0.1934966E	03	-0.1900671E	CZ	0.19442798	03	185.610	18.551	0.178788	10	25.640

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 25 FLT 13.0 TR 11 3 FLAP BEND STA 43 DV ERALL CYCLIC LOAD = 0.217009E 04

		•		30400.00	-	CAD/IN USED	L	8.27	USED	ZERO POSITION
J FREQUENCY		CJ/CJMAX	··· PSIJC	PHIJC				ВЈ		AJ
									04	-0.8927066E
1 2.564	1	0.473379	218.140	218.140	03	0.3497734E	03	-0.216C164E	03	-0. 275 0 57 2E
2 5.168	۷.	1.000000	111.635	223.211	03	0.7359850E	03	-0.5C59016E	03	-0.5385313E
3 7.752	· з	0.713166	6.999	20.938	03	0.52694356	03	U.1000262E	03	0.4919548E
4 10.330	4	C.158624	83.334	332.135	03	J.1172051E	02	-0.547E025E	03	0.1036154F
5 12.920		C.219481	44.815	224.377	03	0.1621715E	03	-0.1128100F	03	0.1165C55E
6 15.504	6	0.873189	58.538	351.227	03	J.645187UE	90	-0.984CJC5E	03	0.6376392E
7 10.088	7	0.412093	12.732	89.125	03	0.3044895E	03	0.3044541E	01	0.4648438E
8 20.672	8	0.174481	12.831	102.050	03	· 0.1259216E	03	0.1257922E	02	-0.29232956
9 43.250	9	0.171844	24.508	221.474	03	J.1269734E	02	-0.8405125E	02	-0.9513628E
10 25.040	10	0.066470	26.281	252.309	02	0.4911346E	02	-0.4872720E	01	-0.6147569E

Table III. (Continued)

TEST 13	И =	. 19	(CONT	IHUED)																
HARMONIC	ANAL	YS15	40DEL	CL67	705	 1 1H2	· 3	 3 _, Т	010	.CTR	25	FLT	13.0	T R	41	2 FLA	P 6	ĒND S	TA	ITR	
OV ERALL	ČACT I	C LDA	D =	0.195	430E	04				<u></u> -										· · · · · · ·	
ZERO POS																					
-0.210	AJ 3 2 2 0 E		• *	BJ	• •	•	•	CJ.		Р	HI JC	•	PSIJC	(C3/C3	MAX .		J	F	KÉYUE NL Y	
0.423			-0.9	72376	7F (13	0.10	63784	F 04	. 29	3.556	1 :	293.558	:	1.000	000		1		2.584	
-0.899				11220		3	0.42	09438	E 03	10	2.339		51.169	i	0.396					6 148	
0.170							0.24	31233	E 03	4	5.405	,	15.135	Č				ā.		7.752	
-0.334		03	-0.1	63445	3E (าจ	3.41	7457a	E U3	่วา	3.057	,	50.744	- (4		10.336 12.920 15.504	
-0.490		01	0.1	21 756 55320	3E (13	0.12	19552	E 03	9	2.309)	18.462	(0.114	873 ["]		>		14.920	
-0.2900	0728E	Ċΰ	0.2	55320)3F (3	3.41.	39519	E J3	13	4.436	•	22.414			232 .		o · .	. •	15.504	
-0.100	5454E	03	-0.2	60184	6E (33	0.27	£9722	E 03	. 24	3.852	2	35.550	(0.262	987	:.	7		20.072	_
0.143	3561E	02	-0.5	21 62 5	OE C	2	3.63	81357	E 02	28	2.962	!	35.373	(0.060	157		8 .		20.672	
0.146	7995E	02	-0.2	14131	.5E ()2	2.25	56195	E 02	30	4.433	3	33.826	(0.024	474		9		23.250	
0.143 0.146 0.286	5 26 ZE	.02	-0.4	16640	6E ()2	0.50	58197	E JZ	. 30	4.504		33.826 30.450	. (0.047	684		۲٦		25.640	
										•											
					•									•							
HARMONIC	AHAL	YSIS	MODEL	CL87	°C 5	SHII	3	3 T	013	CTR	. 25	FLT	13.0	TR	34 .	2 ,C HO	RJ	PEND	۵TA	. 41.	
OV ERALL_	CACLI	C LDA	D. =	0.381	1 77E	- 54							····-		-				· ·		
ZERO POS															'			· · ·	;		
	AJ -			BJ "				CJ		P	HIJC	~	PSIJC	(LJ/LJ	MAX	•	j	6	LEGUENCY	
0.6671	8 129E	04											- -		. .				7		
0.758	42815	03	-0.2	46,498	35 L	12 .	0.76	89243	E 33	35	8.161		358.153		3.354	176	٠.	Ι.,	,	1-2.564 5.108 7.752	
0.157	32976	04	-0.1	48498	12E ()4	0.21	67073	E 04	31	6.745		158.3/2		1.000	000	٠.	4		. 5.108	
0.504	36676	03	-0.5	21010	יאכו	13	0.74	14402	E 03	31	2.438	,	104.146		3.344	508 .	٠	3	7.7.	- 1.152	
-0.698			0.1	CL352	OF () 4		31112		12	4.556		31-147		568	100	-		<u>:</u>	10.136	
0.150				10515			0.186	63263	: 02	32			64.724		3.008	298		5		12.920	
-0.1011 -0.2324				C3410									18.086		0.147	215		7		15.504 15.058 20.672	
-0.398	7 3 4 4 5	03	-0.1	116044	יאב ע מבי מ	13	3.01	1 U L 3 Y 7 1 E 3 7	5 UJ	20	1 636		20 234	,	0.123	212.	-	11.5	: .	10.000	
-0.290	22716	03	0.1	25 204	SE C	12	0.31	11 <i>271</i>	E 02	15	4 400	•	17 410	- 7	1.031	710				23.256	
0.860	8278E	02	0.9	C0526	IE C)2	0.12	45781	E 03	4	6.291		30.204 17.410 4.629	ò	0.057	487		10	-	25.840	
HARMONIC	<u></u>			•• •• • • • • • • • • • • • • • • • • •												 	Pu.	denil			
	CYCLI	C LDA	0 =	0. 236	3136	C4															.
OV ERALL C																					
ZERO POST	IT ION	USED		1.15	i) / IN I	res o		1620	0.00										•
ZERO POST	IT ION	USED		1.15	i)/IN	res o		1620	0.00		PSIJC "						Fi	FÖDE 4Ç Y	
ZERO POST	IT ION AJ 3190E	USED 03		1.15 BJ	i - •)/IN (.c.1	(4.13	1620 P	0.03 HIJC		PSIJC "	(:J/CJ	MAX		<u> </u>		~	
2 ERO POSI 0.1893 0.3522	IT ION AJ 3190E 2715E	USED 03 03	0.3	1.15 BJ 73877	 7E 0)3 ·	0.51	USED "C'J""" 36921	· (); E 03	1620 P	0.03 HIJC 6.704		PSIJC **	··- (.36 L	MAX'''				2.584	
2 ERO POSI 0.1893 0.3522 0.8508	ITION AJ 3190E 2715E 9231E	USED 03 03 03	0.3	1.15 BJ 73877 13506	7E 0)3)4	0.51: 0.14:	USED CJ 36921 21807	E 03	1620 P 3 4	0.03 HIJC 6.704 6.761	·	PSIJC 46.704	··- (.361 1.361	MAX 295		- <u>1</u> - <u>1</u> -1		2.584	
2 ERO POSI 0.1893 0.3522 0.8503 0.2552	ITION AJ 3190E 2715E 9231E 2840E	03 03 03 03	0.3 -0.1 -0.4	1.15 BJ 73877 13906 25162	7E 0)3)4)3	0.51: 0.14:	USED "CJ" 369211 218071 59163	E 03	1620 P 4 30	0.00 HIJC 6.704 6.761 0.932	, 1	PSIJC 46.704	···· ((J/CJ) 0.36 L 1.000	MAX 295 COO 793		J -12 -2		2.584 5.108 7.752	
2 ERO POSI 0.18 93 0.35 23 0.85 06 0.25 53 -0.33 73	AJ 3190E 2715E 9231E 2840E 2529E	03 03 03 03	0.3 -0.1 -0.4	1.15 BJ 73877 13906 25162	7E 0)3)4)3	0.51: 0.14:	USED "CJ"" 36921 21807 59163 30657	E 03 E 04 E 03 E 03	1620 P 4 30 30	0.00 HIJC 6.704 6.761 0.932 5.156	. 1	PSIJC 46.704 153.380 100.327 28.791	· · · · · · · · · · · · · · · · · · ·	3.36 L 1.000 3.343	MAX 295 COO 793 801	J	3		2.584 5.168 7.752 10.336	
0.1893 0.3522 0.8503 0.2553 -0.3372	AJ 3190E 2715E 9231E 2840E 2529E 3766E	03 03 03 03	0.3 -0.1 -0.4	1.15 BJ 73877 13906 25162	7E 0)3)4)3	0.51 0.14 0.49 0.79	CJ 36921 21807 59163 30657 19026	E 03 E 04 E 03 E 03 E 03	1620 P 30 30 11	0.00 HIJC 6.704 6.761 0.932 5.156 5.745		PSIJC 46.704 153.380 100.327 28.791 31.149	· · · · · · · · · · · · · · · · · · ·	3.36 L 1.000 3.343 3.557	MAX 295 GOO 793 801 804	 	3 4		2.584 5.168 7.752 10.336 12.920	
O.1893 0.1893 0.3505 0.8506 0.2556 -0.3376 -0.1193	AJ 3190E 2715E 9231E 2840E 2529E 3766E 1169E	03 03 03 03 03 03 03	0.3 -0.1 -0.4 0.7 0.5	1.15 8J 73877 13906 25162 17805 82927 30577	7E 0)3)4)3)3)2	0.51 0.14 0.49 0.79 0.14	0560 CJ 36921 21807 59163 30657 19026 40756	E 03 E 04 E 03 E 03 E 03 E 03	1620 P 30 30 11 15	0.00 HIJC 6.704 6.761 0.932 5.156 5.745 1.399		PSIJC 46.704 153.380 100.327 28.791 (31.149	(0.36 L 1.000 0.34 d 0.557 0.099	MAX 295 COO 793 801 804 433		3 4		2.584 5.168 7.752 10.336 12.920	
O.189; 0.189; 0.352; 0.850; 0.255; -0.337; -0.1193; 0.1134	AJ 3190E 2715E 9231E 2840E 2529E 3766E 1169E 4610E	03 03 03 03 03 03 03 03	0.3 -0.1 -0.4 0.7 0.5 0.1	1.15 BJ 73877 13906 25162 17805 82927 30577 71144	7E 0 3F 0 4E 0 9E 0 4E 0)3)4)3)3)2	0.51 0.14 0.49 0.79 0.14 0.174	USED 36921 21807 59163 30657 19026 40756 47445	E 03 E 04 E 03 E 03 E 03 E 03	1620 P 30 30 11 15	0.00 HIJC 6.704 6.761 0.932 5.156 5.745 1.399		PSIJC 46.704 153.380 100.327 28.791 31.149 21.900 50.203	(3.361 1.000 3.348 3.557 3.099 3.122	MAX 295 COO 793 801 804 433 703		3 4		2.584 5.168 7.752 10.336 12.920	
O.1893 0.1893 0.3523 0.8505 0.2553 -0.11293 -0.1151	1TION AJ 3190E 2715E 9231E 2840E 2529E 3766E 1169E 4610E 8109E	03 03 03 03 03 03 03 03 03	0.3 -0.1 -0.4 0.7 0.5 0.1	1.15 BJ 73.877 13.906 25.162 17.805 82.927 30.577 71.144	7E 0 3F 0 4E 0 4E 0 3E 0)3)4)3)3)2)3)2	0.51 0.14 0.49 0.79 0.14 0.17 0.11	05ED CJ 36921 21807 59163 30657 19026 40756 47445 43803	E 03 E 04 E 03 E 03 E 03 E 03 E 03	P 4 30 30 11 15 13 35 5	0.00 HIJC 6.704 6.761 0.932 5.156 5.745 1.399 1.422	30	PSIJC 46.704 153.380 100.327 28.791 (31.149		CJ/CJ 0.361 1.000 0.344 0.557 C.099 0.122 0.080	MAX 295 COO 793 801 804 433 703 480		3 4		2.584 5.168 7.752 10.336 12.920	

Table III. (Continued)

TEST	13 N •	ii								,	,	••••		
HARM	OUTC ANAL	V < T <	MODEL C18705			33' (26	13-0	TR 6 1	FLAD	REND	STA A	
								26						·
								-41450.00				BY 0	,ü38)	
	AJ .16873716							PHIJC						EQUENC Y
-0	311C130'.	υς 	-0 403 27155	Δ4	0.7		- ^4	247.281 166.353 22.860 178.360 217.345 326.788 88.179 192.839 290.477 242.713	247. 281	1 0000	١٥			2 661
-0	-2702131C	~	O. SANGASAF	03	0 - 2	77442	. 04	144-153	83.177	0.31634		,		5-102
0	_ A483A79F	03	C.2733472F	03	0.7	118888	F 03	22.860	7-620	0.09361	á	•		7-653
-0	-5088250F	03	C-1456673E	02	0.5	090334	E 03	178.360	44.590	0.0677	28	Ĩ.		10.204
-ŏ	-2155668E	03	-0-1647928E	03	0.2	716584	03	217.345	43.469	0.03614	.5	· 5	•	12.755
ŏ	-8541602F	03	-0-5591919F	03	0.1	20924	- 04	326.788	54-465	0.1358	15	6		15-306
ō	-3494965E	02	0-1099618E	04	0.1	100173	E 04	88.179	12.597	0-1463	3 Ó	7		17.857
-0	-2244596F	03	-0.5115668E	02	0.2	021541	E 03	192.839	24. 105	0-03063	ii	. 8		20.408
Ō	.6588020E	02	-0.2299834E	03	0.2	549491	E 03	290.477	32.275	0.03266	3	9		22.959
0	.7160893E	.02	0. '388148E	03	0.1	561966	E 03	242.713	24.271	0.02078	2	10		-25.510
										•				
			MODEL CL8705 D = 0.69532			33 T (010	CTR 26 FL	T 13.0	TR 31 2	FLAP	BEND	STA 4	3
Z ERO	POSITION	USED	3.75	ι	AI\GAD.	USED							٠.	*
	_{ij}					CJ .	-	DHIJC	PSIJC	CJ/CJNA	×	J.	FR	EQUENCY
-0								•						
-0.	.8894980E	03	-0.5620746E	04	0.56	906916	04	261.007	261.007	1.00000	10	. 1		2.551
-0	.2133607E	04	0.2023892E	03	0.21	43185	04	174.581	87.291	0.37661	2	2		5.102
0.	.3053784E	03	0.1376962E	03	0.3	498688	03	24.271	8.090	0.05884	6	3		7.653
-0.	.38 86919E	03	0.7571289E	01	0.30	876566	03	178.884	44.721	0.06831	6	. 4	χ	10.204
-0.	.1227333E	03	-0.1167949E	03	0.16	942418	03	223.580	44.716	0.02977	2	5		12.755
0	.5708306E	03	-0.4239958E	03	0.71	10696	03	323.396	53.899	0.12495	3	6		15.306
. 0.	.1174128E	03	0.7521016E	03	0.76	121126	03	81.127	11.590	0.13376	4	7 .		17.857
-0	.7546495E	02	0.9625336E	02	0.12	230978	03	128.097	16.012	0.02149	13	8		20.408
-0	.9831238E	02 .	-0.9653646E	01	0.9	2785198	02	185.608	20.623	.0.01739	9 '	9		22.959
0,	.13.19641E	_03	0.4343869E	_02_	0.1	892968	03	261.007 174.581 24.271 178.884 223.580 323.396 81.127 128.097 185.608 198.220	19.822	0.02441	3	10		25.510
			· · · · · · · · · · · · · · · · · ·	•·· •								. , .	•	
HARM	DAIC WHAT	YSIS I	MODEL CL8705 D = 0.74537	S 7E 0	HIP :	33 T G	10	CTR 26 FL	T 13-0	TR 11 3	FLAP	BEND	STA 4	3
Z ERO	POSITION	USED	8.27	ι										
· -	AJ .2552482E	05	8,1			CJ		PHIJC						
	.1110406E		-0.6569074E	04	0.61	700125	- 04	270.968	270.948	1.0000	0	1		2.551
	.2039646E		-0.3726880E		0.20	73415	04	190-355	95.177	0.31558		ž		5.102
	4726606E		-0.8323415E		0.47	199333E	03	190.355	116-671	0.07304	9	3		7.653
	.3731829E		-0.2111772E		Λ. A2	9 9 7 0 7 2 E	: nz	200.505	52.376	0.06526	5	Ā		10.204
	.Z19668E		0.4365320E		0.2	396 228	03	168.760 325.504 77.129 149.419 48.336	33.752	1.00000 0.31558 0.07304 0.06526 0.03408	9 -	··· ś		12.755
	.6372141E				0.77	31614E	03	325.504	54.251	0.11766	0	6		15.306
			0.7465640E		0.7	58 0668	03	77.129	11.018	0.11656	1	7		17.857
	.1037522E				0.12	05 1 50E	: 03	149.419	18.677	0.01834	3			20.408
0.	.2196451E	02	0.2468381E	02	0.3	104134E	02	48.336	5.371	0.00502	9 .	9		22.959
_	24437046	62	-0.8976964E	44	Λ 01	410046		262 621	26 26 2	0.01424		10		26 61 6

Table III. (Continued)

TEST 13 N =	11 (CONTINUED)							
	SIS MODEL CL870		1010 CTR	26 FLT	13.0	TR 41 2 FLA	P BEND. S	TA 118
	: LDAD = 0.35572							
ZERO POSITION		LOAD/IN USE						
AJ	BJ			PHI JC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.2350426E							_	
0.5118501E			3E 04 2				1	2.551
-0.6566067E				33.830		0.408560	Z	
0.1979972E				14.545	4.848		3 ,	7.653 10.204 12.755
-0.84485695				92.144	48.036	0.372367		10.204
0.7807883E					13.700		,	12.777
-0.3772661E				41.931			•	15.306 17.857
-0.1641864E				48.042		0.036438		17.857 20.408 22.959
	02 -0.68850148			05.491	38. 186		2	22.959
0.3968045E				7.029			10	
0.7416183E	02 .0.30166908	02 0.80062	85 OZ	£2•135,	2.21,	0.034499		25.510_
•								
	SIS MODEL CL870!		OLO CTŘ	26 FLT	13.0	TR 34 2 CHO	RD BEND	STA 21.
ERO POSÍTION	USED 3.11	LOAD/IN USE	- 20 3	00.00				
LA	8.3	ŁŚ ·	1	PHIJC	PŠIJC	CJ/CJMAX	J .	FREQUENCY
0.6916875E								
0.75547198	03 0.48228716	0.896291	5E 03	32.554	32.554	0.156096	1	2.551
0.5590417E	03 -0.57146418				137.794	1.000000	2	5.102
-0.5008413E	03 -0.30780598	03 0.587866	OE 03 2	11.574	70.525		3	7.653
-0.4235234E	03 0.23767298	04 0.241416	9E 04 1	00.104	25.026	0.420446	4	10.204
-0.5626051E	02 -0.19978036	0.207550	9E 03 2	54.272	50.854	0.036147 0.037633 0.074988	5	12.755
-0.1694450E	03 0.13409368	03 0.216084	9E 03 1	41.643	23.607	0.037633	6	15.306
0.6768109E			8E 03 2	79.044	39.863	0.074988	. 7	17.857
0.5835503E	02 0.21789386	02 0.622903	4E 02	20.475	2.559	0.010848	- 8	20.408
0.9489583E	01 -0.40919056			36.674	37.408	0.001800	9	22.959
0.6705295E	020.48988718			55.821		0.011709	10	25.510_
				·				
APMONTE ANALY	SIS MODEL CL8705	 33 T	. A10 CTP	2Å ÊLT	12.0	70 20 2 CHO	 DO BEND !	
VERALL CYCLIC	LOAD = 0.51781	77E 04	oro cin	20 721		1 30 £ Chọi	TO GENO	, , , , , , , , , , , , , , , , , , ,
ERO, POSITION	USED 1.15	7.7		00.00			•	
AJ	BJ	ĆJ		PHI JC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.1913438E 0.2952595E			áE 03 (50 447	50 447	A 171084	•	2 800
		0.7E083/	15 04 3)7.77 <i>1 .</i> 14 317	. 27. 447	0.171854	. 1	2.551
0.2544155E		0.551984	15 07 . Z	170311 06 424	121.126	1.000000	2	5.102
-0.3311450E -0.1143766E					65.141	0.101637		
-0.11-3766E					23.383	0.549362	u 🛕 ligi	10.204
							2	120133
-0.1151394E 0.1461174E					16.163	0.020033	9	15.306 17.857
-0.3792210E				00.406 20.477		0.022122		20.408
	UK U.D993/03E	UZ U.791083	ur III Li	44.71	17.000	VaUCZIZZ	- 6	£U+4U8
						0 020075	_	22 050
0.7134358E		03 0.101324	5E 03 27	74.038 58.791	30.449	0.029979	9	

Table III. (Continued)

TEST	13	N =	12
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HARMONIC ANALY				SHIP 33 T 01	10	CTR 27 FE	T 13.0	TR 6 1 FLAI	BEND	STA 43
ERO POSITION	USED	9.51		LOAD/IN USED		-41450.00	(FACTOR	THESE NUMBERS	BY 0.	638)
. AJ		BJ		CJ		DHI JC	PSIJC	CJ/CJHAX	٠ ع	FREQUENCY
-0.2003898E	05									
-0.1618204E	04	-0.1408060E	05	0.1417328E	05	263.444	263.444	1.000000	1	2.500
-0.4401359E	04	0.2207528E	03	0.4406891E	04	177.129	88.564	0.310929	2	5.000
0.6626221E	03	-0.1839585E	03	0.6876836E	03	344.484	114.828	0.048520	. 3	7.500
-0.7186555E	03	0.2286012E	02	0.7190190E	03	178.178	44.545	0.050731	4	10.000
-0-4272297E	03	-0.1642687E	03	0.4577219E	03	201.032	40.206	0.032295	5	12.500
0.9064011E	03	-0.9494512E	03	0.1312639E	04	313.671	52.279	0.092614	6	15.000
0.5915676E		0.1301094E	04	0-1429265E	04		9.364	0.100842	7	17.500
-0.2665513E		0.2576030E					21.810		8	20.000
-0.1610725E		-0.6059309E					22.291		ā	22.500
0.1251901E							21.584		10	25.000

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 27 FLT 13.0 TR 31 2 FLAP BEND STA 43 DVERALL CYCLIC LOAD = 0.114950E 05

	ZERO POSITION	USED	3.75	LOAD/IN USED	•	25900.00				
	LA		BJ	CJ	•	PHIJC	PSIJĊ	XAMLD\LD	j	FREQUENCY
	-0.1277971E	05								
	-0.4707007E	03	-0.1019485E	05 0.102057	1E 05	267.356	267.356	1.000000	1	2.500
	-0.3640861E	04	0.3895598E	03 0.366164	2E 04	173.893	86.946	0.358784	2	5.000
	0.1025322F	03	-0.9662012E	02 0.140884	OE 03	316.700	105.567	0.013804	3	7.500
_	0.5895364E	03	_ 0.2997253E	03 0.661353	5E 03	153.051	38.263	0.064802	4	10.000
	-0.3159473E	03	-0.5285069E	02 0.320336	9E 03	189.496	37.899	0.031388	5	12.500
	0.2724871E	03	-0.4276477E	0.507081	5E 03	302.504	50.417	0.049686	6	15.000
	0.7704519E	03	0.5783652E	03 0.963380	6E -03	36.895	5.271	0.094396	7	17.500
	-0.2306184E	02	0.1155601E	0.117838	BE 03	101.286	12.661	0.011546	8	20.000
	0.1267795E	01	-0.2384288E	02 0.238765	6E 02	273.044	30.338	0.002340	9	22.500
	0.1117267E	.03	-0.2361230E	02 0.114194	5E 03	191.933	19.193	0.011189	10	25.000

MARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 27 FLT 13.0 TR 11 3 FLAP BEND STA 43 OVERALL CYCLIC LOAD = 0.125487E 05

ZERO POSITION	USED	8.27		LOAD/IN USED	-	-30400-00				
AJ -0.1274713E	AB	BJ		cj		PHIJC	PSIJC	CJ/CJMAX	_J	FREQUENCY
0.10745118		-0.1153821E	05	0.1158814E	05	275.320	275.320	1.000000	1	2.500
-0.3825208E	04	-0.5238113E	03	0.3860906E	04	187.797	93.899	0.333177	2	5.000
0.4753115E	03	-0.2586924E	03	0.5411494E	03	331.442	110.481	0.046699	3	7.500
-0.4746960E	03	-0.1766714E	03	0.5065068E	03	200.414	50-104	0.043709	4	10.000
-0.2089193E	03	-0.1862010E	03	0.2798538E	03	221.709	44.342	0.024150	5	12.500
0.3720654E	03	-0.6596926E	03	0.7573816E	03	299.423	49.904	0.065358	6	15.000
0.28670538	03	0.7290127E	03	0.7833643E	03	68.531	9.790	0.067600	7	17-500
-0-1096521E	03	0.1236648E	03	0.1652773E	03	131.563	16.445	0.014263	À	20.000
-0.9619812E	02	-0.3361208E	02	0.1019012E	03	199.260	22-140	0.008794	Ģ	22.500
-0.8886057E		-0.1473654E		0.1720836E		238.910	23.891	0.014850	10	25.000

Table III. (Continued)

TEST 13 N = 12	(CONTINUED)				-	•	•
							
HARMONIC ANALYSIS OVERALL CYCLIC LO	PODEL CL8705 S AD = 0.445756E O	HIP 33 T 010	CTR 27 FL	T 13.0	TR 41 2 FLA	P BEND S	STA 118
ZERO POSITION USE	D 0.39 L	DAD/IN USED .	-14150.00	•			
	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX	- J .	FREQUENCY
-0.2628993E 04		77 × *					
0.4949834E 03	-0.3262809E 04	0.3300141E 04		278.626		1 .	
-0.1129251E 04	0.7344954E 03	0.1347104E 04		73.479		2	5.000
0.22817598 03	-0.8448871E 02	0.2433158E 03		113.227		3	7.500
-0.1030649E 04	0.61897725 02	0.1 (32506E 04		44.141	0.212867 0.085327	4	10.000
0.2205548E 03	0.1750711E 03	0.2815923E 03		7.688		5	12.500
-0.1462868E 03	0.3225403E 03	0.3541638E 03		19.066		6 7	15.000 17.500
-0.4032495E 03	-0.25385165 03	0.4764983E : 03		37.487	0.144387 0.029562	á	20.000
0.4862177E 02	-0.8458093E 02	0.9756027E 02		38.035	0.029562	Ş.	22.500
0.5915353E 02	-0.1885921E 02	0.6208711E 02		0.231			25.000
0. / 378626EUZ_	0.2974032E 01_	0.7364630E _02		0.231			23.000
HARMONIC ANALYSIS			CTR 27 FL	T 13.0	TR 34 2 CHO	ND BEND	STA 21.
DASKATT CACTIT TO	AD = 0.111518E 0	•		:	· •	2.0	
TERO POSITION USE	D 3.11 U	DAD/IN USED	-20300.00	* 1			
AJ	81	CJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.6831742E 04		*					
0.6322139E 03	0.5991619E 03	0.8710276E 03	43.462	43.462	0.118512	1	2.500
-0.1351832E 04	-0.7224313E 04	0.7349703E 04	259.401	129.701	0-118512 1-000000 0-074565 0-421354 0-051980	2	5.000
-0.538:376E 03	-0.1015674E 03	0.5480315E 03	190.680	63.560	0.074565	3	7.500
0.6473687E 03	0.3028410E 04	-0.3096829E 04	77.934	19.483	0.421354	. 4	10.000
-0.1693038E 03	-0.3424778E 03	0.3 820403E 03	243.694	48.739	0.051980	5.	12.500
-0.9482715E 02	0.2599692E 03	0.27672418 03	110.040	18.340			15.000
-0.2043903E 03	-0.3467827E 03	0.4 C25339E 03	239.485	34.212	0.054769	7	17.500
-0.6003873E 02	-0.1004070E 03	0.11698B1E 03	239.122	29.690	0.015917	8-	20.000
0.6932207E 01	-0.3518947E 02	0.3584659E 02	280.988	31.221	0.004877.	9	22.500
0.2777585E 02_	0.9779958E 02_	0.1016673E :03	74.145	7,414	0.013833	10	25.000
				•	*		
	PODEL CL8705		CTR 27 FL	13.0	TR 38 2 CHOR	D BEND	STA ₁ 69
ZERO POSITION USE	D 1.15 LC	DAD/IN USED	16 200 - 00		٠		•
AJ	6.1	CJ	PHIJC	PSIJC	CJ/CJMAX	<u>-</u> -	FREQUENCY
0.2931968E 03							=
0.2907246E 03	0.6533877E 03	0.7151477E 03	66.013	66.013		1 .	2.500
-0.1020051E 04	-0.4223266E 04	0.4344707E 04		128.211	1.000000	. 2	5.000
-0.3418376E 03	0.3351776E 02	0.3434768E 03	174.400	58.133	0.079056	` 3	7.500
0.8955828E 03	_ 0.2224191E 04		68.067	17.017	0.551873		
-0.2189032E 03	-0.1389762E 03	0.2592932E 03		42.482	0.059680	5	12.500
0.7137097E 02	0.2159232E 03	0.2274129E 03	71.709	11.952		6	15.000
0.3617770E 02	-0.2962185E 03	0.29841946 03		39.566	0.068686	7	17.500
-0.1062038E 03	0.2643181E 02	0.1094435E 03	166.024	20.753	0.025190	8	20.000
-0.528C420E 02 0.2237054E 02_	-0.4875096E 02 0.6386154E 02	0.7186749E 02 0.6766635E 02		24.746	0.016541 0.015574	10	22.500 25.000
	V-0300139P (17						

Table III. (Continued)

TEST	11	N =	1 E

HARMONIC ANALYSI OVERALL CYCLIC L			IP 33, T 0	10	CTR 28	FLI	13.0	TR	6	1 FLA	P BEI	ND STA	43
ERO POSTTION US	SED 9.51	FO	AD/IN USED		-41450-00		(FACTOR	THE	SE I	NUMBE RS	ВҮ	0.638	
- AJ		•	CJ	•	PHIJC	-	PSIJC	C	J/C	XAML		J	FREQUENCY
-0.1317303E 0	3		,										
-0.2934470E 04	• 0.4226859E	04	0.51456258	04	124.77	0	124.770	1	.00	0000		l	2.545
-0.7438780E 02	2 0.3116404E	03	0.3203953E	03	103.42	5	51.713	0	. 06	2266		2	5.089
0.7442356E 03	3 0.1083340E	03	0.7520791E	03	8.28	2	2.761	0	. 14	6159		3	7.634
-0.1887231E 0	3 -0.1445980E	03	0.2377498E	03	217.45	9	54.365	0	- 04	6204	4	4	10.178
-0.1976393E 03	-0.1230345E	03	0.2328063E	03	211.90	3	42.381	0	. 04	5244		5	12.723
0.9765798E 0		02	0.9809448E	03	354.59	3	59.099	0	. 19	0637		6	15.267
-0.1332308E 0			0.9343056E	03	98.19	В	14.028	0	- 18	1573	•	7	17.812
-0.5964583E 0			0.1374407E				14.465	ā	- 02	6710	1	8	20-356
-0.4826909E 02			0.5C57921E				21.931			9830	·	9	22.901
	-0.71778538					_					10	n	25.445

MARMONIC ANALYSIS MODEL CL8705 S4IP 33 T 010 CTR 28 FLT 13.0 TR 31 2 FLAP BEND STA 43 DVERALL CYCLIC LOAD = 0.297423E 04

ZERO POSITION	USED	3.75	L	DAD/IN USED		25900.00				
AJ '	••	BJ		CJ		PHEJC	PSTJC	CJ/CJMAX	J	FREQUENC Y
-0.8792574E	04			•						
0.3083850E (03	0.8204934E	03	0.8765334E	03	69.401	69.401	0.749129	1	2.545
-0.1071205E	04	-0.4707266E	03	0.1170069E	04	203.722	101.861	1.000000	2	5.089
0.71607238	03	0.1641700E	03	0.7346504E	03	12.913	4.304	0.627869	3	7.634
0.1457897E	03	-0.2187811E	03	0.26290658	03	303.678	75.920	0.224693	4	10.178
-0.2448763E	02	-0.1486353E	03	0.1506389E	03	260.644	52.129	0.128744	5	12.723
0.6056331E	03	-0.28889795	03	0.6710093E	03	334.498	55.750	0.573478	6	15.267
0-1277452E	02	0.4345840E	03	0.4347717E	03	88.316	12.617	0.371578	7	17.812
-0.1056761E	03	-0.8336382E	02	0.1345993E	03	218.269	27.284	0.115035	8	20.356
-0.17539895	03	-0.1562254E	03	0.2348853E	03	221.691	24.632	0.200745	9	22.901
-0.2582117E	03	-0.1553461E	03	0.3013396E	03	211.032	21.103	0.257540	10	25.445

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 28 FLT 13.0 TR 11 3 FLAP BEND STA 43 DVERALL CYCLIC LOAD = 0.278338E 04

1	ROITIRCE CRE	USED	8.27	1	LOAD/IN USED	•	-30400.00				
	AJ -0.8961836E		BJ		CJ.		DLING	PSIJC	CJ/CJMAX "		FREQUENCY
	0.1237760E	_	-0.3665728E	03	0.1290900E	04	343,503	343.503	0.870051	1	2.545
	-0.1221240E	04	-0.8425908E	03	0.1483705E	04	214.604	107.302	1.000000	ž	5.089
	0.29928616	03	0.1910362E	03	0.3466716E	03	33.440	11.147	0.233652	3	7.634
	-0.51273445	02	0.2170584E	02	0.55678626	02	157.055	39.264	0.037527	4	10.178
	-0.4592827E	02	-0.14562535	03	0.1526962E	03	252.495	50.499	0.102915	5	12.723
	0.7001277E	03	-0.4374641E	02	0.7014929E	03	356.425	59.404	0.472798	6	15.267
	-0.2283677E	03	0.4376519E	03	0.4936506E	03	117.556	16.794	0-332714	7	17.812
	-D.2499425E	02	0.12543445	03	0.1279004E	03	101.269	12.659	0.086203	à	20.356
	0.63932298	01	-0.1357932E	OZ	0.1500904E	02	295.211	32.801	0.010116	9	22.901
	0.7120035E	. 02 _	-0.1476056E	03	Q.1638807E	03	244.249	24.425	0.110454	10	25.445

Table III. (Continued)

rest 13 N =	13 (CONT)			•						
HARMONIC ANALY				23 T	010	CTP 28 FL	T 13.0	TR 41 2 FLA	P BEND	STA 118
ERO POSITION	USED	0.39	LOAD	IN USED		-14150.00				
		BJ		CJ	·	PHIJC	PSIJC	CJ/CJHAX		FREQUENCY
-0.21752146			٠.							
0.73386608		53965E 0		.1220638					1	2.545
-0.3115330£		49861E 0				137.548			2	5.089
0.12062948		98723E C		1 847 044			16.408		3	7.634
-0.5579063E		80253E 0		-6105537			50.992	0.500192 0.083278	5	10.178 12.723
-0.79762918		01671E 0 85533E 0		-1016525					6	15.267
-0.3738694E		65854E 0).4C23O13).3l21558					7.	17.812
-0.9735681E		84358E 0		0.1C44796				0.085594	8	20.356
0.85914068		56155E 0		9622672			38.024		9	22.901
0.55045468		53345E 0		.7C17949				0.057494	•	
V. J. J. T. T. T. T. T. T. T. T. T. T. T. T. T.	0.43		'		- 02	JV 0 J J 7			• •	
			•		•					
MARMONIC ANALY OVERALL CYCLIC			941 P		010	CTR 28 FL	r 13.0	TR 34 2 CHOI	RD BENE	STA 21.
ERO POSITION	USED	3.11	LOAD	IN USED		-20300.00		•	٠	
AJ		BJ .	•	CJ		PHIJC	PSIJC	XAML3/L3	j,	FREQUENCY
0.6541750E					_					
0.7395752E		69304E 0		.7897227			20.528		. 1	2.545
0.18954328		07990E 0		. 2909962			155.322		2	5.089
0.7148696E				.9300427		320-232	106.744	0.319606	3	7.634
-0.56787995		96086E 0		-1234460		117.389	29.347	0.424218	4	10.178
0.1100418E		59653E 0		-1598660		313.499	62.700	0.054937	5	
-0.1990307E		01030E 0		-2052176		194, 105	32.351	0-070522	6	15.267
0.1226669E		75670E 0		-1996861			43.986	0.068622	. 7	17.612
-0.6938530E		95865E 0		.7597864			19.494		₹,	20.356
0.4227051E		51974E 0		4789503			36.884		9	22.901
	AT	UU192E_ 0	0	• o CZZ + O +	E , 02,	274.855	_ 2,7,486,	0.02069 <u>6</u>	10	25.445
				,	•.	•	-	•		
YARMA DIVENSAL	SIS MODEL (CL8705	SHIP	33 T	010	CTR 28 Ft 1	13.0	TR 38 2 CH01	D BEND	STA 69
VERALL CYCLIC			O • ,			: -		-		
ERO POSITION	USED :	1.15	LOAD/	IN USED		16 200 . 00		·	•	
AJ 0.9059299E	02	BJ		cı		PHIJC	PSIJC	CJ/CJMAX	j	FREQUENCY
0.3224900E		59729E 0	3 0	.4657012	E 03	46.173	46.173	0.256687	1	2.545
0.11362528		14402E 0		.1814277		308.776		1.000000	2	5.089
0.4270884E	03 -0.33	58516E 0		.5433237	E 03		107.273	0.299471	3.	7-634
	03 0.89	39453E 0	3 0	-9405208	E 03	108.107	27.027	0.518400	4	10.178
-0.2923030E	02 -0.351	19177E 0		. 9185002		337-471	-67.494	0.050626	5	12.723
-0.2923030E 0.8484087E		80137E 0	2 0	.10895620		199.573	33.262	0.060055	6.	15.267
-0.2923030E 0.8484087E -0.1026602E									_	
-0.2923030E 0.8484087E -0.1026602E 0.1074807E	03 -0.17	61649E 0	3 0	-2063642		301.388	43.055		7	17.812
-0.2923030E 0.8484087E -0.1026602E 0.1074807E -0.5648181E	03 -0.176 02 -0.243	61649E 0 36943E 0	3 0	.20636420 .56534350	E 02	182.471 -	22.809	0.031161	8	20.356
-0.2923030E 0.8484087E -0.1026602E 0.1074807E	03 -0.176 02 -0.243 02 -0.771	61649E 0 36943E 0 12451E 0	3 0 1 0 2 0	-2063642	E 02	182.471 - 309.417	22.809		8	20.356 22.901

Table III. (Continued)

	14						·			
ARMONIC ANALY VERALL CYCLIC					010	CTR 29 FL	T 13.0	TR 6 1 FLAM	BEND	STA 43
ERO POSITION						-41450.00	(FACTOR	THESE NUMBERS	S BY 0.	ü38)
AJ		BJ		CJ				CJ/CJMAX		
-0.1032189E	05									
-0.5940305E	04	0.1197367E	05	0-133662	3E 05	116.387	116.387	1.000000	1	Z+33
0.26384576	04	0.09320808	03	0.272501	DE UN	144722	11 202	0.204048	•	7 50
0.77030426	03	0.32301275	03	0.451080)E 03	15.439	3.860	0.064951	1	10-12
-0.37913016	03	-0.1357730E	03	0.000000	1E 03	261.234	48. 247	0-020157	3	12.65
0.1233446	ns .	-0-1515729F	03	0.1044324	LE OA	351.455	58.609	0-078132	Ã	15.19
0.4899045F	07	0.72586116	03	0-727512	SF 03	86.139	12.306	0.054429	7	17.72
-0.228A909F	03	0.2816298F	Ŏ1	0.228708	2E 03	179-294	22.412	1.000000 0.204098 0.069659 0.044951 0.020157 0.078132 0.054429 0.017111 0.022958 0.016096	8	20.25
-0.7898892F	02 .	-0.2965251F	03	0.306865	2E 03	255.084	28.343	0.022958	9	22.78
-0.7546255E	02	-0.2014670E	03	0.215136	IE 03	249.466	24.947	0.016096	10	25.31
	,									
		DDEL CL8705	941	P 33. T				TR 31 2 FLAF		STA 43
VERALL CYCLIC ERO POSITION						25 9 00 - 00				
			_							
		81		CJ				CJ/CJMAX		
-0.1159110E	04	0.5476031E	04	0.559735	9E 04	101.951	101.951	1.000000	1	2.53
0.5223005E	03 -	-0.4380781E	03	0-681696	5E 03	320.012	160.006	0.121789	Z	5.06
0.5603047E	03	0.2198090E	03	0.601878	2E 03	21.420	7. 140	0.107529	3	7.59
0.5031211E	03 .	-0.9506715E	02	0.512023	9E 03	349.300	87.325	0.091476	. 4	10.12° 12.650
-0.6152777E	02 -	-0.1074624E	OZ	0.624591	7E 02	189.907	37.981	0.011159	5	12.65
0.5950461E	03 -	-0.3189910E	03	0-675155	5E 03	331.805	55.301	0.120620	6	15.19 17.72
0.22645136	03 .	0.4/994146	03	0.530682	E 03	64.741	9. 249	0.094809	7	11.12
-0.10069336	03	0.4222243E	OZ	0.169187	3E 03	157.251	19.656	0.019507	8	20.25
0.18129556	OZ ·	-0.740079ZE	OZ	0.761961	FE OZ	283.764	31.529	0.013613	. 9	22.78
. 0.55230036	00:	-0.31442105	02	_0.315006	0E _0Z	2/1.005		1.000000 0.121789 0.107529 0.091476 0.011159 0.120620 0.094809 0.019507 0.013613 0.005628	10	25.31
ARMONIC ANALY VERALL CYCLIC					010	CTR 29 FL	T 13.0	TR 11 3 FLAR	BEND	STA 43
ERO POSITION						-30400.00	•			
AJ		ВЈ		C)	·	PHIJC	PSTJC	CJ/CJHAX	_.	FREQUENCY
-0.6923727E	U T									_
-0.1563028E	04	0.4752125E	04	0.503471	5E 04	109.288	109. 288	1.000000 0.110120 0.112206	1	2.53
0.5511196E	03	-D.6045279E	02	0.554425	3E 03	353.740	176.870	0.110120	2	5.063
D.3463689E	03	0.4462852E	03	0.564926	3E 03	52-184	17.395	0.112206	3	7.59
U.3406924E	03	0.4262604E	OZ .	0.3433484	E 03	7.132	1.783	1.000000 0.110120 0.112206 0.068196 0.008517 0.148601 0.115820 0.020560 0.025024	<u>4</u> .	10.121
-0.20851995	07 .	-U.3746761E	OZ	0.4287921	IE OS	240.903	48.180	0.008517	5	12.65
U.14/9639E	03	U.1728531E	UZ	0.7481636	SE 03	1.324 84.255	0. 22 1	0.148601	6	15.19
U-5837390E	02	0.5801917E	03	0.583120	5t 03	84.255	12.036	0.115820	7	17.72
	U 3	v./001966t	UL	U-1032126	oc 03	エイフ・イキキ	21.908	U.UZ0560	8	20.25
-0.1032272E -0.1761305E	0.3	A 1347404F	^-			24 1 24 1	20 107		_	

Table III. (Continued)

		SIS MODEL C			010	CTR · 29 FL	T 13.0	TR 41 2 FL	AP BEND S	STA 116
ž Ef	NOITIZCE OF	USED 0	.39 L	OAD/IN USEC	, .	-14150.00				
	AJ			CJ		PHI JC	PSIJC	CJ/CJMAX	· j	FREQUENCY
•	-0.182988BE	04								
	0.4078076E	03 -0.212	2406E 02	0.408359	74E 03	357.021	357.021			2.532
	0.31757718	0.302	4956E 03	0.438587	'ZE 03	43.607	21.803	0.965851	2	
	0.8899088E		6914E 03	0.289698		72.110	24.037	0.637970	3	
	-0.16599558		5382E 02	0.598998		253.911	63.478		. •	10.127
	0.1107594E		0570F 02	0.124295	10E 03	26.988	5.398	0.273721	. 5	12.658
-	-0.3242275E		9275E 03	0.454094		135.562.	22.594	1.000000	6	15.190
-	-0.1628266E	03 -0.250	0244E 03	0.298370	1E 03	236.926	33.847	0.657067	7	17.722
	0.5002135E		0220E 01	0.5(6166			43.900	1.000000 0.657067 0.111467 0.110825	8	20.253
	0.4039484E	02 +0.300	1398E 02	, 0.5C3247	'5E 02	323.387	35.932	0.110825	9	22.785
	0.5530692E	02 _ 0.103	2706E 02 _	0.562628	IOE . 02.	10.577	1.058	0.123901	10	25.316
		•	•	•	.•		٠			
		SIS PODEL CU			010	CTR 29 FL	13.0	TR 34 2 CHO	ORD BEND	STA 21.
	-,	USED 3		DAD/IN USEB	, -	-20300.00				
					,					
	AJ		IJ	CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
	0.6441813E									
	0.84461696		851E 03			14.347			1	2.532 5.063
	0.1449471E		5490E 04				28.223	1.000000	5.	5.063
_	0-3700488E		167E 03	0.353359			92.004	0.134743	3 4	7.595
	0-1474389E		90ZE 03	0.170586			52.549			10.127 12.658
	0.2082539E		TEUL UL	04207070		186.635	37.327		•	12.658 15.190
	0.1773400E		393E 02	0.103252		194.594	32.432		•	15.190
	0.7187250E	02 -0.277	112E 03	0.286860		78 4 -510	A 11 - AA A			110166
	0.1078667E	02 -0.4668	054E 02	0.479106		256.989	32.124			
	0.5297673E		274E 02				37.783	0.021491	10	22.785
	D. 14 (5135E)	03 =0.5939	1851E"05"	0.158744	7E_03_	_338.027	_ 33, 803	0.060533_	10	25.316
			•			÷				•
					.: •	•				
		SIS MODEL CL LOAD = 0.3			010	CTR 29 FLT	13.0	TR 38 2 CHO	RD BEND	STA 69
Z ER	NOITIZES O	USED 1.	15 LC	DAD/IN USED		16200.00		•	• •	
	AJ		j	CJ		PHIJC	PSIJC	CJ/CJMAX	j	FREQUENCY
	0.2209839E		4056						_	
	0.3945540E		605E 03	0.4 29701		36.322	36.322	0.317056		2.532
	0-1027326E		326E 04	0.154452			24.153	1.000000	2 ,	5.063
	0.4195C76E		717E 03	0.237015		280.197	93.399	0.153455		7.595
	0.1085740E			0.115387		199.862	49.965	0.747075 0.142089	· 🔩	10.127
	0.2162991F		853E 02	0-219460		170-262	34,052	0.147089	5`	12.658
	0.1594035E		348E 01	0,5159562		177.442	29.574	0.103308	6	15.190
	0.1719917E		595E 03 163E 02	0.170728		275.782	39.397	0.103308 0.110537 0.025382 0.021048	7	17.722
		117 n. 2078								70 761
-	0.3304307E (0.1749535E (9875 02	0.352030		90.483 237.441	11.310	0.023362		20.253 22.785

Table III. (Continued)

				····	· - · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · ·		
TEST 13	N -	15			·						
			ODEL CL8705			010	CTR 30 f	LT 13.0	TR 6 1 FL	AP BEND	STA 43
ZERO POS	SITION	USED	9.51	LOAD/	IN LSED		-41450.00	(FACTOR T	HESE NUMBERS	BY 0.03	38)
	AJ	· · — · · · · · · · · · · · · · · · · ·	83		CJ		PHIJC	PSTJC	CJ/CJHAX	·	FREQUENCY
-0.396	51532E	04									
-0.150				05 0,	2658554	05	121.812	121,812	1.000000	1	2.513
	7840E		0-2704391E	04 0,	6001 680	04	26.783	13.391	0.209955	Z	5.025
	2146E		0.1228064F	04 0,	14544130	04	57.605	19.202	0.050879	3	7.53
	59014E		0.4584131E	03 0.	1290370		21.580	7. 397	0.043602		10.057
	12116E		0.41365886	02 0.	24164021	: 03	7.014	1.923	0.008665	7	12.503
	18744E		0.19913715	03 0.	1125487	- 04	10.182	1.69/	0.037408	•	15.075
-0.409	75213E	03	0.1067438E	0 4 0.	1143410		111.005	17.878	0.040000	΄.	17.220
-0.241	774805	03	0.12109136	02 04	22/80070	: 03	7 163	0.705	0.007021		20.100
-0.145	144836	03	0.7210915E 0.25065315 -0.2608125E	02 0.	2115122	: 03	227.110	23 711	0.007042	10.	25.124
-0.100	,06736	V 3	-0150001576	· · · · · · · · · · · · · · · · · · ·	. 2 1024 1 21	. 03	231.1110	236 111	0.010000		2.513 5.025 7.53 10.05) 12.563 15.075 17.588 20.100 22.613 25.126
						•					
				0.10							*** 45
			DDEL CL8705 = 0.166799		23 T (110	CTR 30 F	LT 13.0	TR 31 2 PL	AP BENU	31A 43
			3.75				25900.00				
-	AJ .		BJ		CJ		PHIJC	PSIJC	CJ/CJMAX	· · · ·	FREQUENCY
-0.622	2031E	04	0.1428911E	05 0.	15585008	05	113.530	113.530	1.000000	1	2.513
0.334	1938E	04	0.30365416	03 0.	3 355 7048	04	5.192	2.596	0.215316	2	5.025
0.532	27361E	03	0.59780576	03 0.	8 0736 86	03	48.294	16.098	0.051379	3	7.538
0.681	17744E	03	0.7531461E	02 O.	6 6 5 9 2 1 6 6	03	6 - 304	1.576	0.044012	_ 4	10.050
0.196	53857E	03	-0.8753314E	02 0.	. 21501038	03	335.976	67.195	0.013796	5	12.563
0.830	9802E	03	0.3776755E	02 0.	.83183816	03	2.602	0.434	0.053374	6	15.075
-0.144	8079E	03 .	0.5994548E	03 0,	61669731	03	103.581	14.797	0.039570	_ 7	17.588
-0.121	l 4572E	03	0.1149770E	02 0.	. 1 220 0026	03	174.592	21.824	0.007828	8	20.100
0.386	3802E	02	-0.4861804E	02 0.	.62101618	02	308.475	34.275	0.003985	9	22.613
0.466	60345E	-05	_0.7489453E_	020.	8821 036	. 02	121.892_	12, 189	0.005660_	10	2.513 5.025 7.538 10.050 12.563 15.075 17.588 20.100 22.613 25.126
							•				•
	•										
			ODEL CL8705 = 0.148132		33 T (10	CTR 30 F	LT 13.0	TR 11 3 FL	AP BEND	ST4 43
UAEKWT"				LOAD/1	IN USED		-30400.00				•
	SITION	USED									
ZERO POS	ÀJ.				CJ		PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
Z ERO POS	ÀJ.				CJ		DLIHA	PSIJC	CJ/CJMAX	J	FREQUENCY
ZERO POS	ÀJ.				CJ	. 05	PHIJC 116.406	PSIJC	CJ/CJMAX 1.000000	1	FREQUENCY 2.513
ZERO POS	ÀJ.				CJ	05 04	PHIJC 116.406 19.404	PSIJC	1.000000 0.139201	1 2	FREQUENCY 2.513 5.025
ZERO POS	ÀJ.				CJ	05 04 03	PHIJC 116.406 19.404 64.602	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322	1 2 3	FREQUENCY 2.513 5.025 7.538
ZERO POS	ÀJ.				CJ	05 04 03 03	PHIJC 116.406 19.404 64.602 24.134	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322 0.056801	1 2 3 4	FREQUENCY 2.513 5.025 7.538 10.050
ZERO POS	ÀJ.				CJ	05 04 03 03	PHIJC 116.406 19.404 64.602 24.134 316.740	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322 0.056801 0.011118	1 2 3 4	FREQUENCY 2-513 5-025 7-538 10.050 12.563
Z ERO POS	ÀJ.				CJ	05 04 03 03 03	PHIJC 116.406 19.404 64.602 24.134 316.740 25.466	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322 0.056801 0.011118	1 2 3 4 5	2.513 5.025 7.538 10.050 12.563 15.075
Z ERO POS	ÀJ.				CJ	05 04 03 03 03 03	PHIJC 116.406 19.404 64.602 24.134 316.740 25.466 136.635	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322 0.056801 0.011118 0.051067 0.037759	1 2 3 4 5 6	FREQUENCY 2.513 5.025 7.538 10.050 12.563 15.075 17.588
Z ERO POS	ÀJ.				CJ	05 04 03 03 03 03	PHIJC 116.406 19.404 64.602 24.134 316.740 25.466 136.635 238.857	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322 0.056801 0.011118 0.051067 0.037759 0.005864	1 2 3 4 5 6 7 8	FREQUENCY 2.513 5.025 7.538 10.050 12.563 15.075 17.588 20.100
Z ERO POS	ÀJ.				CJ	05 04 03 03 03 03 03	PHIJC 116.406 19.404 64.602 24.134 316.740 25.466 136.635 238.857 353.601	PSIJC	CJ/CJMAX 1.000000 0.139201 0.062322 0.056801 0.011118 0.051067 0.037759 0.005864 0.002015	1 2 3 4 5 6 7 8	FREQUENCY 2.513 5.025 7.538 10.050 12.563 15.075 17.588 20.100 22.613 25.126

Table III. (Continued)

	CONTINUED)						
ARMOVIC ANALYSIS M			CTR 30 F	LT 13.0	TR 41 2 FLA	P BEND	TA 118
VERALL CYCLIC LOAD	= 0.322789E	C4					
ERO POSITION USED	0.39	LOAD/IN USED	-14150.00				÷
AJ	BJ	CJ	PHTJC	PSIJC"	CJ/CJHAX		FREQUENCY
-0.1100635E 04				,		•	
-0.6103787E 03	0.1895063E 04	• 0.1990935E 0		107.853		1	2.513
0.1310542E 04	0.55235338 03	3 0.1422186E 04		11.427		2 -	5.02
0.5775964E 02	0.42695366 0			27.432			7.53
0.4841851E 03	0.3306143E 0			8.582	0.294482	4	10.05
-0.4313094E 02	0.3298105E 02	2 0.5429573E 02					12.563
-0.6436577E 03	0.13321028 03						15.075
	-0.2415827E 03			39.579			17.586
	-0.7226731E 01	l 0.6051250£ 02		44.143			20.100
0.6505106E 01	0.6443657E 02			9.359		9.	
0.5710806E 02	-0.3778474E.07	2 O • 6 847 6 3 9 E _ 07	2326.510	32.651	0.034394	10	25.126
	,	•	•				4.1
ADMOUTE ANALYSTS ME	DEL CLATOS	SHIP 33 T 010	CT0 30 CI		To 24 2 CHO	00 0540	CT4 21
ARMONIC ANALYSIS M Veral Cyclic Load			CIR 30 FL	13.0	TR 34 2 CHO	KD BEND	31A 21.
ERO POSITION USED	3.11	LOAD/IN USED	-20300.00		•		
AJ	eJ	CJ	PHIJC	PSIJC	CJ/CJMAX	٠ .	FREQUENCY
0.5762359E 04						•	
	-0.5804136E 03	0-1475083E 04	336.845	336.845	0.181671	. 1 .	. 2.513
-0.2688946E 04	0.7667172E 04			54.663		2	5.025
	-0.2198735E 03			68.759		3	7.538
	-0.3914642E 04						10.050
	-0.5376169E 03			46.736	0.082125		12.563
	-0.3637230E 02			31.321	0.032462	6	
0-1100640E 03	0.8278342E 02			5.278	0.016950	, 7	
	-0.7776978E 01			24. 210	0.004048	ė	20.100
	-0.6192795E 02			34.455	0.009964	9	22.613
		0.5355890E_02				1 Ó .	
			•				·
		0.15 on T.414		- 15 6			
ARMONIC ANALYSIS MO Perall cyclic Load		SHIP 33 T 010 04	CIK 30 PE	.1 13.0	1K 38 2 CHU	KD BEND	314 07
RO POSITION USED	1.15	LOAD/IN USED	16 200 - 00			,	.*
	61	C1	PHI JC	PSIJC	CJ /CJHAX		FREQUENCY
AJ -0.4924902E 03	0.3409072E 03	0.7191514E 03	331.703	331.703	0.159776	1	2.513
-0.4924902E 03				53.093		Ž	5.025
-0.4924902E 03 0.6332148E 03 -	0.4322574F 04				0.060302	3	7.538
-0.4924902E 03 0.6332148E 03 -0.1254725E 04	0.4322574E 04 0.8005859E 02	0.27141726 03	197.155	62-114			
-0.4924902E 03 0.6332148E 03 -0.1254725E 04 -0.2593416E 03	0.8005859E 02				0.630368	• .	
-0.4924902E 03 0.6332148E 03 -0.1254725E 04 -0.2593416E 03 -0.2359041E 03		0.26372826 04	265.230	66.308	0.630368	4	12.563
-0.4924902E 03 0.6332148E 03 -0.1254725E 04 -0.2593416E 03 -0.2359041E 03 -0.3207773E 03	0.8005859E 02 0.2827458E 04 0.2893191E 03	0.2837282E 04 0.4319763E 03	265.230 222.048	66.308 44.410	0.095973	5	12.703
-0.4924902E 03 0.6332148E 03 -0.1254725E 04 -0.2593416E 03 -0.2359041E 03 -0.3207773E 03 -0.8881662E 02	0.8005859E 02 0.2827458E 04 0.2893191E 03 0.1082044E 03	0.2837282E 04 0.4319763E 03 0.1399878E 03	265.230 222.048 129.380	66.308 44.410 21.563	0.095973 0.031102	5	15.075
-0.4924902E 03 0.6332148E 03 -0.1254725E 04 -0.2593416E 03 -0.2359041E 03 -0.3207773E 03 -0.8881662E 02 0.1986710E 03	0.8005859E 02 -0.2827458E 04 -0.2893191E 03 0.1082044E 03 -0.9608263E 02	0.2837282E 04 0.4319763E 03 0.1399878E 03 0.2206854E 03	265.230 222.048 129.380 334.190	66.308 44.410 21.563 47.741	0.095973 0.031102 0.049030	5 6 7	15.075 17.598
-0.4924902E 03 0.6332148E 03 -0.1254725E 04 -0.2593416E 03 -0.2359041E 03 -0.3207773E 03 -0.8881662E 02 0.1986710E 03 0.7281900E 02	0.8005859E 02 0.2827458E 04 0.2893191E 03 0.1082044E 03	0.2637282E 04 0.4319763E 03 0.1399878E 03 0.2206854E 03 0.7373495E 02	265.230 222.048 129.380 334.190 9.041	66.308 44.410 21.563 47.741 1.130	0.095973 0.031102 0.049030	5	12.563 15.075 17.598 20.100 22.613

Table III. (Continued)

	TEST 14	N -	1	***		• •	-						
	-		:		-	· · · · · · · · · · · · · · · · · · ·							 _
	HARMUNIC A UVEKALÉ Č	araly Yüliü	خ15 دنء	MUJEL (L8705 U = U•1061021	5a11	70 اود ۲	.0	CTR 32	FLT - 14.0	TK 6 1 F	LAP BĒNŪ	STA 43	•
	ZERU POSI	TIUN	USED		LUAI	D/IN USED		-26400.00					
	A.	j						PHIJC	PSIJC	XAMLD (L'S = =	<u>-</u>	FREC	NENCY
	-0.6563												
	-0.4487			U-3544190E		J.5716301E					_	•	1.695
	U- 4292			U. 27778846		0.51239102		33.096					3.390
	0.2061			U. ¥221030c		0.2250706E		24.046 46.010					5.085 6.780
	-0.4492			0.31925596		U- 3224009E							6.475
	-0.1607			U,85991816 (-U.2885147L (J. 1075870E		152.716					3.169
	-0.1527			-0.20031472				249.277					1.864
	-0.1476			-0.10702586		J. 4171619E		243.072				_	3.559
	0.8085			0.3080142E		0.2003293E		20.666					5.454
	0. 3103										-		
	0.3208	4015	UŽ	-u.2056726E		. 0. 20010055	ږن	210.001		0.030402			01 242
				MUDEL CL8/05 D = 0.9364831			10	CTR 32	FLT 14.0	TR 31 2 F	LAP BEND	STA 43	
	ZERU POST	TIÚN	uSēv	3.75	LUA	u/IN USEŬ		25900.00					
	A.			8J -		LJ		PHIJC	PSTAC	CJ/CJMAX		FREC	DIENCY
	-0. 9029		60			•				00,00.0	•		,
	-0. 3523			0.1832906E	04	0.3972054E	04	152.519	152.519	0.727220	. 1		1.695
	0.3749			0.39716746		U-2461969E		46.648			. 2		390
	0. 1720			0.9746379E		0.1977093E		29.536			_		5.085
	0.5707			Ú. 4001459E		€. 401 863 8Ē		84.706					6.780
	-0.1037			U. 1744027E		U. ZÚZ996ZE		120.735				•	8.47>
	-0.2004			U. 3932474E		0.20431126		108.903			_		0.169
	-0.1459			-0.16324295		0.21697/oE		228.200			7	ī	1.864
	U. 1137			-0.1348710£		0.17491326		310.567		0.026		i	3.559
	0.7383			J. 1502306E		J. 7535261E		11.501					5.254
	-0.1474					U. 1660639E							6.949
					7.7 .		_7						.T.S. 5. 1. 1
				MUUEL CL8/05.			10	CTR 32	FLT 14.0	TR 11 3 F	LAP BEND	STA 43	
				D = 0.7548121									
	TEKO POSTI		_			C/IN USED		-30400.00					
•	-0.66041			91		C1		PHIJC	"PSIJC"	CJ/CJMAX		FKEQ	UENCY
	-0.3224			U. 1651865E	U4	0.3611420E	04	153.137	153.137	0.792333			1.695
	0. 2277.			0.39482536		U-4557957E		00.024		1.000000			3.390
	0.1535.			U. 1085815c		0.18822236		35.343		0.412953			5.085
	0.11954			0.33436896	در	0.3345823E	J3	67.953	21.986	0.073406	4		6.780
	-0.1094			0.19214316	03	O. cillizet	03	119.664	23. 433	0.048513			8.475
							_						0.169
	-0.74789	3445	oz	-U. 723Ub5ot (02	U. 1040287E	دن	224.034	7، ن ح	0.022824			U-107
	-0.74789 -0.91290			-0.7230556E (0.1040287E 0.3231787E							1.864
		308Ē	Q2	-0.3100171E (60 03		60	253.592 319.885	36.227 34.486		7 8	1	3.559
	-0-91290	OUSÉ OSIÉ	02 03	-0.3100171E	د0 و و	J. 3231787E	03 03	253.592 319.885 23.408	36.227 34.486	0.070904 U.U71753 U.151971	7 8	1 1 1	1.864

Table III. (Continued)

EST 14 N -	1	(CONTINUED)												,
IARMUNIC ANALY JEKALL CYCLIC	515 p	10UEL CL670	> \$H1	P 33	7 6	10	CTR	32	FLT 14.0	TR 41	ž FLAP	BEND	STA	118
ERO POSITIUM	uSËJ	0.34	ŁUA	D/IN U	SED		-14150	.00						
AJ		BJ.	-		CJ		· PH	l JC	PSIJC	LJ/(XAMLJ	J	ŧ	-KEUUENCY
-0.3552055E -0.3313235E		-0.5071929		a 405	4-156		534		134 1/5		7:00.			
عد7 14950 م		0.1649954		0.222				819		0.2	7208d	1		1.695
0.69450916		0.1950491		0.797				701		1.00	56Ú93	. 4		3.390 5.085
-3.10021746		0.25/4440		0.313				620			40404	3		6.780
0.13004298		0.4296749		U. 137				. 600			51908	5		0.475
-U. 3332248£		0.5241837		0.021				444		0.0	7697	6		10.169
0.16015636		0.1520635						۷93		U. I	2592	• 7		11.864
-0.46249436		0.7709031		0.904				. 755		0.04	•0603	ė		13.559
-0.55605912	33 .	0-0651070		0.562					19.240	U. 2!	2432	9		15.254
-0.994554ZE	01 '	0.6138004						204		0.0	27927	10		16.949
											,	·; ·		
ARMONIC ANALY: MERALL CYLLIC					T O	10	CTR	32	FLT - 14.0	TR 34	2 CHOR	D BEND	STA	21.
RO POSITION	ISEù	3-11	LUA	D/IN U	SED	•	-20300	00						
ΔÜ		8.1		(J		PHI	JC	PSIJC	C.1/C	JMAX		F	KEQUENCY
0.4319087E)3							-						
U. 7665454E (ذ(-0.25425010	01	0.7665	510E	03	359.	780	359.780	0.47	8525.	. 1		1.695
-U. 1374865E (0.82209798	60	0.160	1904E	04	149.	123		1.00	0000	· Ž.	;	3.390
-0.2050049E (0.73037136	: 02	0.2178	3966E	03	160.	192	53.397	0.13	0023	- 3		
0.136714+£ (-0.48833700	: U3 ·	0.507	LISSE	03	265.	640	71.410	U.31	0569	4	. `	6.780
-0.72948292 (U. 2037980E		0.2736			195.			0.11	0659	` 5 [']	,	8.475
0.6799701E							. 204.	364	: 47.341	J. 17	0071	6,		8.475 10.169
0.50214702		Ú. 7950050c		U. 9408	3189E	02	57.	742	B- 249	. 0.05	d731	7	•	11.864
-0. 8184760E		0.28404646		0.008	2159E	02	100.	512.	20.004	0.05	4199	8		13.559
-0.195075oc (0.1961					19.337	0.12	2441	9		15.254
-0.50623026_0)2	0.5350997	02	0.735	1627E	02	وقدا	519	13.352	0.04		10 _		16.949
								•						
RMONIC ANALYS ERALL CYCLIC				P 33	1 0	10	CTR .	32 F	LT . 14.0	TR 38	2 CHURI	, ĐĚNU 	, STA	69
RO POSITION U		****		r\IN na			16200.	00 .					, ;	
AJ				c	J		PHI	JĊ "	PSIJC	CJ/C	JHAX	· J	Fi	REQÜÉNCÝ -
0.2337297E 0	-								=			-		
0.44297926 0		-0.14585148		0.4432	192E	03	٤٥٥٠			U.56	4704	1		1.695
-0.69600202 0		0.20276936		0.7848	646E	03	152.	471			0000	<u>2</u>	٠.	3.390
-0. 2025854F A		0.23224936		0.2036	1146	03	1/3-	444	57.416	0.25	9421	2 3 .		5.085
0.1490807E 0		_n.3140940F		U. 3524	30+u	U 3	295.	131	73.783	0.44	9074	4		6.780
-0.1063759E 0		0.24044086		0.2088			1134	305	22.661	0.54	2577.	- 5	•- •-,	8.475
0.7036061E 0		-0 . 1427144E							. 48.002	. 0.26	4115	6		10.169
0.20004075 0		0.92669365		0.1001				+86		0.01	3527.	7		11.864
0.24326842 0		0.66932946		0.7121				J26	· 6.753	0.09	0737	8		13.559
		-0.26240846	Λ1	O. 1107	1 6 /2	41.3	161.	44.		41.6	1062	9		
-0.1106041E U		0.40858616							14.359			10		15.254

en la companya de la companya de la companya de la companya de la companya de la companya de la companya de la La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co

Table III. (Continued)

TEST	14	м -	3
TEST	14	N =	- 4

MARMONIC ANALYSIS GVERALL CYCLIC LUA		_	HP 33 T 01	U	CTR 33 FL	T 14.0	TR 6 1 FLAP	, PFUN ?	
ZERU POSITILM USEC	9.51	LU	MAD/IN USED		-26400.00				
. AJ			· · Ca		PHIJC	PSIJC	XAML3/LJ	٠	FREQUENCY
-0.2745151E 04									
-0.6299047E 04	D.4748598E	04	0.7888418E	04	142.989	142.989	0.761597	1	1.66
0.1J0a17/c US	0.23749676	04	U.1U35773E	05	13.256	0.626	1.000000	2	3.32
U.3064U97E U4	0.51530∠5Ē	ذv	0.3107125E	04	9.546	3.182	0.299981	د	4.98
-0.5179317ē 02	0.37173326	03	U.375324Uč	ذن	97.932	24.463	0.036236	4	6.64
-0.12869802 03	0.1531411E	03	0.2000367E	03	د40.044	20.009	0.019313	5	8.30
-0.23633426 03	-0.14664656	دن	0. ∠781 ≥50ē	03	411.840	د 30 د 36	0.044853	6	9.96
-0.19496352 03	-0-125484gc	03	U. 2318500E	ذن	212.761	30.395	0.022365	7	11.62
0.1225730E 03	-0.114243UE	UZ	U. 1229057E	Ú3	154.667	44.333	U-011066	8	13.20
د0 غدد76458.0	-J. 8451697£		0.0379405E			39.357	0.000901	9	14.95
-0.3307778E 03	-0.30299246		U. 5000003£			22.918	U. Ú 46a5a	10	16.61

HARMONIC ANALYSIS MODEL CL87U5 SHIP 33 T 010 CTR 33 FLT 14.0 TR 31 2 FLAP BEND STA 43 UVERALL CYCLIC LOAD = 0.153937E 05

used	3.75	L	JAD/IN USED		25400.00				
	8J		. CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
20									
04	0.3897458E	04	0.6558453E	04	145.437	145.937	J. 6558#5	ı	1.661
05	0.2104779E	04	0.10609275	05	11.774	5.887	1.000000	2	3.322
04	779c د 0 0 0	03	0.3204709E	04	6.835	2.270	0.302067	3	4.983
03	0.51073072	60	0.5291550č	د0	132.440	25.610	0.049677	4	6.645
\J3	0.2044321E	03	0.2676741E	U 3	130.205	26.041	J. 025230	5	8.306
03	0.35488372	0ż	0.1424520E	03	165.5/4	27.546	U. U13427	6	9.967
يدن	-0.1517588E	03	U. 1743908E	03	240.484	34. 355	J. Di6438	7	11.628
02	-0.16291998	03	0.1606624E	03	255.006	31.876	J.U15698	8	13.289
60	-0.2073736E	03	U.7436314E	03	343.607	36.201	0.070093	9	14.950
Č۵	-0.2398575E	03	0.2856045E	03	237.122	23.712	0.026920	10	16.611
	02 04 05 04 03 03 03 02 02	8J 02 04	8J 02 04 0.3897458E 04 05 0.2164779E 04 04 0.3813779E 03 03 0.5167307E 03 03 0.204432E 03 03 0.3548837E 02 02 -0.1517588E 03 02 -0.1629199E 03 03 -0.2073736E 03	BJ CJ 02 04 0.3897458E 04 0.6958453E 05 0.2104779E 04 0.1060927E 04 0.3815779E 03 0.3204709E 03 0.5107307E 03 0.5291550E 03 0.2044321E 03 0.2676741E 03 0.3548837E 02 0.1424526E 02 -0.1517588E 03 0.1743908E 02 -0.1629149E 03 0.1606624E 03 -0.2073736E 03 0.7436318E	8J CJ 02 04 0.3897458E 04 0.6558453E 04 05 0.2164779E 04 0.1060927E 05 04 0.3813779E 03 0.3204709E 04 03 0.5167307E 03 0.5291550E 03 03 0.204432E 03 0.2676741E 03 03 0.3548837E 02 0.1424526E 03 02 -0.1517588E 03 0.1743908E 03 02 -0.1629199E 03 0.1606624E 03 03 -0.2073736E 03 0.7436318E 03	BJ CJ PHIJC 02 04 0.3897458E 04 0.6558453E 04 145.937 05 0.2164779E 04 0.1060927E 05 11.774 04 0.3815779E 03 0.3204709E 04 6.835 03 0.5167307E 03 0.5291550E 03 130.205 03 0.2044321E 03 0.2676741E 03 130.205 03 0.3548837E 02 0.1424526E 03 165.574 02 -0.1517588E 03 0.1743708E 03 240.484 02 -0.1629199E 03 0.1666624E 03 255.006 03 -0.2073736E 03 0.7436318E 03 343.607	8J CJ PHIJC PSIJC 02 04 0.3897458E 04 0.6558453E 04 145.937 145.937 05 0.2164779E 04 0.1060927E 05 11.774 5.887 04 0.3815779E 03 0.3204709E 04 6.835 2.27d 03 0.5167307E 03 0.5291550E 03 132.440 25.610 03 0.204432LE 03 0.2676741E 03 130.205 26.041 03 0.3548837E 02 0.1424526E 03 165.574 27.596 02 -0.1517588E 03 0.1743508E 03 240.484 34.355 02 -0.1629199E 03 0.1606024E 03 255.006 31.876 03 -0.2073736E 03 0.7436318E 03 343.407 36.201	8J CJ PHIJC PSIJC CJ/CJMAX 02 04 0.3897458E 04 0.6958453E 04 145.937 145.937 0.695885 05 0.2164779E 04 0.1060927E 05 11.774 5.887 1.000000 04 0.3815779E 03 0.3204709E 04 6.835 2.27d 0.302067 03 0.5167307E 03 0.5291550E 03 102.440 25.610 0.049677 03 0.204422E 03 0.2676741E 03 130.205 26.041 0.025230 03 0.3548837E 02 0.1424526E 03 165.574 27.596 0.013427 02 -0.1517588E 03 0.1743908E 03 240.484 34.355 0.016438 02 -0.1629199E 03 0.1666624E 03 255.006 31.876 0.015698 03 -0.2073736E 03 0.7436318E 03 343.407 36.201 0.070093	8J CJ PHIJC PSIJC CJ/CJMAX J 02 04 0.3897458E 04 0.6958453E 04 145.937 145.937 0.655885 1 05 0.2164779E 04 0.1060927E 05 11.774 5.887 1.000000 2 04 0.3815779E 03 0.3204709E 04 6.835 2.278 0.302067 3 03 0.5167307E 03 0.5291550E 03 132.440 25.6410 0.049877 4 03 0.2044321E 03 0.2276741E 03 130.205 26.041 0.025230 5 03 0.3546837E 02 0.1424526E 03 165.574 27.590 0.013427 6 02 -0.1517588E 03 0.1743908E 03 240.484 34.355 0.01438 7 02 -0.1629199E 03 0.160624E 03 255.006 31.876 0.015898 8 03 -0.2073736E 03 0.7436318E 03 343.607 36.201 0.070093 9

MARMUNIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 33 FLT 14.0 TR 11 3 FLAP BENU STA 43 OVERALL CYCLIC LOAD = 0.141055E 05

ZEKU PUSTITUM	OZED	8.21	-	JADVIN OZED	-	30400.00				
 AJ				cj		T PHIJCT	PSIJC	CJ/CJMAX		FREQUENCY
-0.7116672E	04							•		
-0.5377y1sE	04	0.3567403E	04	0.6453555E	04	146.442	146.442	0.729636	ı	1.601
J. 8179109c	04	0. J360268ē	04	0.88424776	04	22.335	11.167	1.000000	2	3.322
0.2802785E	04	0.69696758	ذن	0.2688629E	04	14.003	4.066	0.340076	ذ	4.983
-0.23801302	03	0.4090250E	03	0.47323586	03	120.195	30.049	0.053518	4	0.645
 -0.13127358	03	0.7759142E	02	" U. 1524844E	03	149.414	29.883	0.017245	5	8.306
-0.1497145E	03	-0.1710400c	U3	0.24/91106	03	220.936	30.150	U. 025775	6	9.967
-0.102474dE	0.5	-0.16337600	03	0.2304122E	03	225-158	32, 1 05	0.026057	7	11.628
0.1102647E	60	-0.139531+c	03	0.17764U7E	03	308.318	38.540	0.020112	8	13.289
0.9152/428	O.J.	0.45/63045	υż	0.4164175E	03	2.862	0.318	0.103638	9	14.950
-0.7310101E	04	-0.1720313E	د٥	0.18694196	03	246.961	24.696	0.021141	10	16.611

Table III. (Continued)

RST 14 N =	2 (c	OHTINUED)								
ARMONIC ANAL! VEKALL CYCLI) 33 T	010	CTR 33 FL	T 14.0	TR 41 2 FLAF	dENU :	TA 118
ERU POSITIUN	USED	0.39	LOAI)/IN USEO		-14150.00				٠
LA		STATE OF THE STATE OF		ca .	**	PHIJC	PSIJC	CJ/CJMAX	J	FRÉQUENCY
-0.3066763£				-					•	1,100
-0.9082831E		D.8596695E	02	0.9123430	3E 0 3	174.593	174.593	U.249943	1	1.661
غ492104 د ن		0.10620316		U. 165040			8.462		2	3.322
0.111091UE		0.6627424E		U. 1120690			1.135	0.307076	3	4.963
-0.0059717c	UŽ (U. 3045627c	03	0.110466	5E 03	104.843	20.206	0.086309	4	6.045
0.14567895	ا د0	0.80692006	U2	0.1665539	دُن غَوَ	28.982	5.740	0.045625	5	8.306
0.34576866	U2 1	0.11012516	02	0.362861	SE 04	17.666	2.944	0.009941	6	9.967
0.19381272	U3 (0.6902191E	02	U.205736	2E 03	19.602	2.800		7	11.628
0.61815866	02	0.56262122	02	0.8359949	JE 02	42.317	5.270	0.022903	8	13.269
-0.52737446	03	0.1760907E	03	0.5562126	5E U3	161.477	17.942		4	14.950
0.1297543E	١ ()• 20 > 3 1 6 0 £	02	0.139174	LE 03	21.20L	2.120	0.038128	10	16.611
		*		**						
ARMONIC ANALY	ISIS MOI	DEL CL8705	SHIF) 33 T	010	CTR 33 FI	T 14.0	TR 34 2 CHOR	O MENO	STA 21.
VERALL CYCLI				•	010	01K 33 1C		1K 37 2 01101	0 00.110	J. N., 224
ERO POSITIUN	USED	3.11	LÜAE)\IN USED		-20300.00			•	
LA		bJ		· · CJ		PHIJC.	PSIJC	CJ/CJMAX	٠ ي	FREQUENCY
0.1913475E										•
0.45\$3406E	03 -	J. 1359944E	03	0.9323621	LE - 03		351.613	U. 292933.	1.	1.661
-0.1463458E		3.26947122		0.3068650			59.294		ė i	3.322
U. 2891740E	03	0.20754126	03	0.35>9663	SE 03	35.672	11.891	0.111639	3	4.983
-U.7391330E	03 -6	0. 3095837ċ	04	0.3182848	3E U4	256.572	64.143	1.000000	4	0.645
-0.8730757ē)- د٥	3.65379135	٠ د٥	0.109075	₽ 04	216.827	43.365	0.342692	5	8.306
-0. 120>405Ē	03 (1.100/410E	U 3	0.3384829	<i>i</i> 03	161.261	26.877	0.106340	6	9.467
-0.4345126E	02 (3.1917307E	03	0.1905926	دن عد	102.769	14.681	0.061760	7 ' `	11.628
0.5724289E	Q2 (0.28125292	03	0.2670190	JE 03	78.496	9.812	0.050177	ь	13.289
-0.1938260E	03 (0.2159251E	03	0.2901594	€ 03	131.913	14.657	0.071163	. 9	14.950
-0.1055092E	وو	19627486	03	0.222864	7E 03		11.827	0.070020	_10	16.611
ARMONIC ANALÌ VERALL CYCLI(' 33 T	010	CTR 33 FL	T 14.0	TR 38 2 CHUR	n REND.	STA 69
ERU POSITIUN	USED	1.15	LUAE)/IN USED		16200.00		•	~	: .
		в.,				PHIJC	PSIJC	CJ/CJMAX	. j	FREQUENCY
0.2070344E	04			_						
0.517136/ē		0.4330350E	02	0.5149465	SE 03	355.213	255.213	0.269092	1.7	1.601
-U. 8866279E	د 0	0.1417641E		0.1072174			61.014	0. 667061	Ž.	3.322
0.7782275E		0.12273756		U.1453302		57.023	19.204	0.075359	3	4.983
-0.522050vE		J. 1826279E		0.1928510		254: 269	61.567	1-000000	4	0.645
-0.024+3902	03 -	J. 2973398E	دن	0.6916177		205.464	41.092	ט 260כ ב עו	5	8.306
-0.228+5528		0. 91 757976		0.4401930		150.117	20.353	0.127660	6	9.907
-U. 1520669É		J. 1045704E		0.1640529			20.876		7	11.028
		0.13491408		0.2113716			4,958			13.287
0. 1627164£	י כט	J. LJ47120r		0.211311		374403	44 3 30			
0.1627164£ -0.1881057£	-).1500583E		0.1518281	-		10.791	0.1078728	9	14.450

Table III. (Continued)

TEST 14 N = 3

DVERALL CYCLIC	LUAD =	0.536685	€ 04							
ENU POSITION	useb	9.51	LÜÄ	FVIN DZFD		-26400.00				
AJ		r)		CJ.		PHIJC	PS1JC	CJ/CJMAX	J	FREHUENCY
-0.4619238č	04									
-0.2097660ċ	04 0	· 2384464Ē	04	0.3175636E	04	131.339	131.337	1.000000	1	1-661
-U. 1076424E	04 U	.19033302	U4	0.21806302	04	119.490	59.742	0.686521	. 2	3.322
0.105188>E	04 0	. 1001220E	04	0.1452207E	04	43.566	14.529	0.457268	خ	4.983
-0.306746ac	UŽ U	.4241111ċ	03	0.42521800	0.	74.137	23.534	U. 133072	4	6.643
-U.154>>+1£	U3 U	. 37610992	03	U.4UZ7850E		112.552	22.510	J. 126891	· >	3.306
-U. 1920458c	0 د0	. 2982477£	Ù2	0.19434796	03	./1.172	28.529	0.001196	6	9. 46
-0.1363>yJE	03 -0	• 1356945£	03	0.192371/E	0.3	224.860	32.123	U. O cO 574	7	11.628
Ŭ•5598763£	ن∠ - ں	.47945a1č	02	U.727.135E	02	314.425	39.928	0.022210	8	13.289
0.4670000£	03 -0	.30940∠6É	Ú 3	U.5602012E	03	346.475	36.2/5	0.1/0395	Ÿ	14.950
-0.14156732	ט- נט	. JUBY714c	4	0.3398290E		245.383	24.538	0.107014	10	16.611

HARMUNIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 34 FLT 14.0 TK 31 2 FLAP BEND STA 43 UVERALL CYCLIC LUAD = 0.622982E 04

ZERO PUSITIUN	uSĒu	3.75	- 1	LUAU/IN USED		25900.00				
LA		. BJ		CJ.		PHIJC	PSIJC	KANL3/LJ	. ,	FREWUENCY
-0.524406jë	04							•		
-0.1064164E	04	0.7143691E	03	0.1281705E	04	146.127	146.127	0.370647	4	1.661
-い。89057と3と	03	0.3539443c	04	0. 245615Jē	04	104.932	52.466	1.000000	2	3.322
0.1340532E	04	0.9199236E	6	0.162581aE	04	34.459	11.486	0.470412	3	4.983
0.10777536	03	0.5273000£	03	0.5382U14E	03	78.448	19.612	0.155723	4	6.645
 U. 4850904E	02	0.36016042	03	0.3634126E	03	82.329	16.400	0.105149	5	8.306
-0.1907248E	03	0.10352170	03	U. 2559604E	03	140.275	23.302	0.074061	6	9.967
-U.177U410c	U B	U.2415707E	02	U. 1780010E	03	172.230	24.604	0.051700	7	11.628
0.1271137E	02	-0.10400902	02	0.2080234E	02	307.006	36.458	0.006019	8	13.289
0.66903555	02	-0.6461865E	03	0.6496406E	03	275.911	30.657	0.167966	9	14.950
-0.3171392E	03	0.44625436	02	U. 2202632E	03	171.990	17.199	0.092665	10	16.611

MARMUNIC ANALYSIS MODEL CL8705 SHIP 33 T UIO CTR 34 FLT 14.0 TK 11 3 FLAP BENU STA 43 UVERALL CYCLIC LUAD = 0.695201E 04

	ZEKO POSTITUN OSE	0 6.27	LUZ	TONIN OPEN	-	30400.00			٠.	
	LA					PHIJC	PSTJC	CJ/CJMAX	j · ·	FREQUENCY
	-0.5139441ē 0 4							٠.		
	-0.67089266 03	0.5147534E	03	0.8456169E	03	142.502	142.502	0.170084	ı	1.661
	-0.276760ac 04	0.41302342	04	0.44/1760E	04	123.825	61.913	1.000000	2	3.322
	U.120+394ë Û4	0.11244656	U4	0.10477216	04	43.034	14.345	0.331410	3	4.983
	0.2915039E 02	0.47090468	03	U.4718857E	03 .	. B0.458	21.615	0.094913	4	6.645
-	0.7167046£ 02	0.40315/20	03	0.460009/E	ً د ن	01.204	16.241	0.094206	5	e.306
	-0.11725UJÉ 03	0.245511JE	03	U. 2720725Ē	ذن	115.528	19.255	0.054723	. 6	9.967
	-0.30241.196 03	V. 216433ä£	03	0.3718823E	03	144.409	20.630	0.074799	7	11.628
	-0.1132662ê 0 <i>3</i>	U. 18002026	u2	U. 1146974E	60	170.939	21.307	0.023070	8	13-593
	-0.25503416 03	-0.50225816	03	عرورورده. ن	03	246.377	27.373	0.127910	9	14.950
	-0.2821c28E 03	0.1394/4 ac	02	U. 4044673E	03	177.170	17.717	0.056814	10	10.611

Table III. (Continued)

TEST 14 N =	3 (CONTINUED)								
										<u>::-</u>
IARMUNIC ANALY IVEKALL CYCLIC	SIS M	Duel Cl8705 = 0.217588F	SH [P	33 T (_		LT 14.0	TR 4L 2 FL	AP BEND	STA 118
LEKO POSITION	uštū	U. 34	LuAil	IN USED		-14150.00				
AJ		6J		دع		PHIJC	PSIJC	KAMED\EJ	J	FKEUUÉNCY
-0.1672957E										
0.143U65o£		-0.726245ac (D. 7402031E						1.661
0.733188ZE	01	0.138416Uc (14 (0. 13841 786	04		44.848	1.000000	2	3.322
0.51174cot		0.3697944E C		7528 د 31،63،0			11.951	0.456137	3	4.983
-ū.a406342Ē		U.3087102c U		J. 321 300dE			د 20.52	0.232124	4	
J. 1882zc7ë		0.1640ZLJE 0) • TAR 3400E			0.996	0.130500	>	d.306
0.1357837c	03	-0.673/061ê 0) 1	0.13595058	03		59.527	0.136500 0.076217 0.158166	6	9.967
U. 2185491Ë		U.1336261c (J. 2187573E			0.500	0.128106	7	
-0.40456135	U2	0.85211698 0) (0.94327762	02	115.397	14.425	0.008147		
0.4414U7JE		0.43157666 (0.453a3ULE			9.351	0.313421		14.950
U-1175450E	2	-U.2975464c C)2 (0. 15152036	د 0	345.795	_ 34.500	0.087602	10	16-611
									•	
				_						
MARMUNIC ANALY DVERALL CYCLIC	LUAD	WEL CL8705 = 0.570189€	SHIP 	33 T () 10	CTR 34 F	LT 14.0	TR 34 2 CH	ORU BĒNŪ	STA 21.
EKU POSITIJA	USEÜ	2.11	LOAU	/IN USED		-20300.00				•
LA.		41	•	LJ		PHIJC	- PSIJC	XAMLJ/LJ	٠ .	FREQUENCY
0.3340909E										
0.7397866E		-0.66847985 0				354.637				1.661
-0.11176U9E		-0.74796548 0		0.13950798			106-211	0.501925	2	3.322
-0.7226151E		-0.1123384E Q		1.13358346			79.081	0.048061	<u>خ</u>	. 4. 983
-0.26671636		_0.7820547£ 0		0.27794558		163.658	,40 . 915.	1.000000	4	6.645
-0.2767135E		0.12707062 0		0.13279178			20.406	U.477762	5	. 8.306
0.1067410E		-0.1463B53£ C		.22188115			53.120	0.079829	6	9.967
0.12804436		0.10356058 0)• 1 • 4 J J C O E			12.267	0.066202	7	11.028
0.15295046		U.4155621c (0.15849586			1. 300	0.057024	. 8	13.269
-0.74576056		0.3048777t C		0.21386626			11.527	0.112924	9	14-950
0.545444BE	04	0.16556200 (<u> </u>	0, 1,7594496	03	10.219	7.022	0.063305	10	16-611
						•			•	
			-		•					
IARMÜNIC AMILY IVERALL CYÜLIC				33 1 0	10	CTR 34.F	LT 14.0	TR 38 2 CH	ORD BEND	STA 69
ERU POSITION	USED	1.15	LUAD/	IN USED		16200.00				
				CJ		PHIJC	PSTJC "	XAMLD\LD	;	FREQUENCY
0.8339321E							_			
0.34116415		0.9705759E U).3547012E			15.840	0.209581	1.	1.661
-0.6102224E		-0.56243636 0)。 やとりゅううき			111.333	0.450350	-	
-0.02872336		-0.87452058 0		. 107707sE		234.287	78.096	0.063641	3	4.983
-0.1598250E		0.55670462 (). 16924318			40.199	1.000000	4	6. 645
-0.165715/E		0.94177936 0		J. 456247oE			19.936	0.565014	5	~8,306
0.12371.5E		-0.50050216 0		J. 13345066			50.326	0.078655		9.967
-0.39023J/é		.O. 1441447E 0). 1493335E			15.021			11.628
		40107 A				344.133	43.017	0.066670	. 8	13.269
0.1414145		-0.40197056 0). 14702106			43.011	0.000010	. •	
0.1414142E -0.1817474E	02	0.78779776 0 0.1877940E 0	٥ د ا	. 10201078	: 03		13.637	0.107549	9	14.050

Table III (Continued)

TEST 14 N = 4

				·												
HARMUNIC ANAL	451S	MODEL CL8705	SHIP	33	TO	10	CTR	35	FLT	14.0	TR	6	L FLAF	BEND	STA 4	3 .
OVERALL CYLLI	LOA	U = 0.741528E	04												_	
ZERU POSITIUN	uSéũ	9.51	LUAD	/IN US	έυ		-2640ú	. 0ບ								-
LA		BJ.		c	J		РН	IJC		PSIJC	LJ	/CJI	1AX	j	FR	EQUENCY
-0.5191441E	04															
-0. 4640164£	د0	0.1714267£ 0	4	0.1964	9905	04	119	. 380)	119.330	0.	381	706	1		1.667
-U. 4544 750E	04	0.2417904E 0	4	0.5147	914ē	04	151	.900	6	75.943	1.	000	000	2		3.333
0.50494826	ŁŪ	ل عدد 3930000 €	فا	U. 8755	7698	د ن	49	. 61	7	10.606	u.	170	J64	د		5.000
-0.14882doc	ڌ٥	0.983275Uc 0	3	3.4945	73>6	U	90	. 600	6	24.652	Ú.	193	199	4		6.667
-U. 2106 745E	03	U. 2634127E 0	13	0.3373	4418	0.3	128	. 64	ن	25.129	u.	ڈن ن	530	· >		8.333
-U. 2286662c	_	-U.9410U26E 0	14	U. 474	712	٠ ن	202	. 36	В	33.728	Ű.	048	ذدن	6		10.000
-0.1752081£		-U. 2949219E 0	3	U-3430	405E	03	439	- 2 0	6	34.104	o.	0 66	53 7	7		11.667
0.17345/0E		-U. 49372478 0	_	411				. 504		37.57u		Ù 66		6		13.333
0.45371976	_	-J.3788840E 0	_	0.5911						35.571		114		ÿ		15.000
-0.3183535ê		-0.32572120	-	U. 4554						22.500		0 00		10		16.667

HARMUNIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 35 FLT 14.0 TK 31 2 FLAP BEND STA 43 OVERALL CYCLIC LOAD = 0.791791E 04

ZERU POSITION U	SED	3.75	LUA	ADVIN USED		25900.00		•		
LA				CJ		PHIJC	PSIJC	CJ/CJMAX	. J	FREQUENCY
-0.5962316ê O	4									
U.5685764E U.	2	-U. 7440385Ē	02	0.9364143E	02	307.386	307.386	0.014701	4	1.667
-0.4778383£ 0	4	0.42116291	04	0.6365310E	04	138.607	69.304	1.000000	Ż	3.333
0.686528BE 0	3	0.89723446	03	0.112975aE	04	52.578	17.526	0.177369	3	5.000
-0.3242058E 0	خا	0.9455771E	03	0.9996128E	03	108.925	27.231	0.156937	4	6.667
-0.1792727E 0	3	0.28251396	03	0.3345935E	03	122.398	24.400	0.052530	5	8.333
-0.1562909E 0	3	U.6972243E	02	U. 1711375E	U3	155.958	25.993	0.026868	6	10.000
-Ú.179598E Ũ.	3	-U. 1716425E	دن	J. 2482410E	03	223.744	31.963	0.038973	7	11.667
0.7879231E 0	Z	-0.26559105	03	U. 2110345E	03	286.524	35.815	0.043493	6	13.333
0.42333185 0	3	-0.5182148E	03	U.669146UE	03	309.245	34.361	0.105054	9	15.000
-0.355950E U	3	-0.18107142	03	0.3990420E	03	206.985	20.699	0.062649	10	16.667

HARMUNIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 35 FLT 14.0 TR 11 3 FLAP DEND STA 43 UVERALL CYCLIC LOAD = 0.910491E 04

۷Ł۱	KO POSITION	UŠEŪ	8.27	LU	AD/IN USED	-	30400.00				
	LA						PHIJC	"PSIJC"	"CJ/CJMAX"		FREQUENCY
•	-0.5694664E	04								•	
	U. 7486730E	03	-U.5157573E	Ü3	0.9091304E	03	325.437	325.437	0.113025	1	1.667
•	-0.7254344E	04	0.347475aE	04	U. 6043594E	04	154.406	77.203	1.000000	ż	3.333
	0.29734556	03	0.11832640	04	U.1220062E	04	75.892	25.297	0.151681	3	5.000
•	-U. 8098317E	02	U. 8605554E	03	0.86435798	03	95.376	23.844	0.107459	4	6.067
•	-0.1315700Ë	60	0.4211484E	LO	0.44122198	03	107.349	21.470	0.054654	5	8.333
	-U.2233127E	60	Ú.9594483Ë	02	U. 2430350E	03	156.758	20.126	0.030215	6	10.000
	-0.30487996	3	-U.1893767E	03	U. 3589084E	03	211-847	30.264	0.044620	7	11.667
	J. 2066209E	03	-0.20011252	03	0.34d0735E	03	300.414	30.302	0.043273	8	13.333
	0.4791519E	03	-U. 2591800E	60	U. >447005E	03	331.590	36.843	0.067726	9	15.000
•	-0.1747762E	03	U. 33007+9E	02	J. 1778769E	0.3	169.286	16.929	0.022114	10	10.667

Table III. (Continued)

TEST 14 N = 4 (CONTIN	14	N =	4	(CONTINUED)	
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HARMONIC ANALY				T 01, EE * 91	10	CTR 35 FL	14.0	TH 41 2 FLAP	BEND	STA LLB
ZERO PUSITION	USÉÙ	U.39	LC	AU/IN USED		-14150.00		•		
LA		bJ		CJ		JLIHA	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1771546E	04							•		
0.5458564E	03	-0.1000831E 0	4	U.1140009E	04	298.608	298-608	0.544319	1	1-667
-0.11625946	04	U. 1742065£ Ú	4	U.2094377E	04	123.716	61.859	1.000000	ż	3.333
U. 2097980E	03	U-4634754E 0	3	U->Ca7666E	03	65.646	21.682	U.24292U	ڌ	5.000
-U.525844/£	02	0.1576857E 0	ف	U. 1664142E	د٥	104.421	27.105	0.019457	4	6.667
0.1237417E	03	0.26359246 0	2	0.1465101E	03	12.025	4.405	U-U6U4U8	5	8.333
0.15420076	U3	0.4649971E 0	Ž .	0.1610593E	03	16.761	2.797	0.076501	6	10.000
J. 1157862E	د٥	0.11758z0£ 0	3	J. 16>0212E	03	45.441	6.492	0.078792	7	11.667
-0.1728086E		0.2490016£ 0	-	U. 2504784E	_	93.956	11.745	0.119596	Š	13.333
-0.17306158		U.4613180E U	-	U-4927119E			12.285	0.235255	9	15.000
0.2092457E		0.6599316E 0	_	0.2194057E		17.505	1.750	0.104759	10	16.667

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 35 FLT 14.0 TR 34 2 CHORU BEND STA 21. DVERALL CYCLIC LUAD = 0.156566E 05

ZERU POSITION	uSED	3.11	L	AD/IN USED	-	20300.00		•		·
LA		83		CJ		PHIJC	PSTJC	LJ/CJMAX	J.	FREQUENCY
U.3446912E	04									
0.73906018	U3	-0.8520561E	UŽ	0.743975JE	03	353.424	353.424	0.055194	1	1.667
-0.73697296	د0	-0.21907/1E	04	U. 2311407E	04	251.407	125.70+	0.171480	ż	3.333
-0.1130082E	03	-0.1428866E	03	0-1621742E	03	231.660	77.220	0.013515	. 3	5.000
-u. 9233695E	04	U. 9819758E	04	0.1347918E	05	133.238	33.310	1.000000	4	. 6.667
-0.2560313E	03	0.5572927E	Ú3	0.6132920E	03	114.675	22.935	0.045499		8.333
U. 1027043E	Ú2	-0.41116196	03	0.4112903E	6.0	271.432	45.239	0.030513	6	10.000
-U. 9749891E	ui.	U-1450121E	دن	0.12539186	0.4	94.460	13.494	0.009303	7	11.667
0.21209106	03	-0.1863416E	03	0.28232258	03	318.698	39.437	0.020945	8	13.333
0.6330436E	02	0.1423798E		0.1558430£	03	66.009	7.334	0.011562	9	15.000
-0.2544138E		0.2554669£		0.3608243E		134.837	13.484	0.002677	10	16.667

MARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 35 FLT 14.0 TR 38 2 CHURD BEND STA 69 OVERALL CYCLIC LOAD = 0.960336E 04

LERG POSITION U	ISED	1.15	L	OAD/IN USED		16200.00				
						PHIJC	PSTJC -	CJ/CJHAX	j	FREQUENCY""
-0.61815326 0	1									•
U. 3589036E 0	3	U-1423695c	03	0.3665354E	03	21.772	21.772	0.046332	1	1-667
-0.2816289E Q	13	-0.1346193E	U4	0.1375336E	04	258.184	129.392	0.164854	4	3. 333
0.2780263£ 0	è	-0.14304015	03	0.1457544E	03	261.022	93.074	0.017466	3	5.000
-0.53906808 0)4	0.63672466	04	0.83427346	04	130.252	32.563	1.000000	4	6.667
-0.3371135E 0	3		03	0.6226323E	03~	122.701	24.550	0.074632	5	8.333
0.489>870E 0	2	-U.958209JE	02	0.1001357E	03	286.810	47.902	0.012003	` 6	10.000
0.3862504E 0	12	0.7015551E	02	J.80J8614E	02	61.104	8.736	0.009600	7	11.667
0. 3079624E 0	13	-0.2339333	03	0.36673158	03	322.179	40.347	0.046356	8	13.333
-U. 4891267E 0	12	0.18402005	03	0.1904154E	Ũ3	104-885	11.654	0.022824	. 9	15.000
-0.1773104E 0	12	0. 1656194E		U. 1605058E	03	90.111	9.611	0.019965	10	16.667

Table III. (Continued)

TEST 14 N = 5

M armunic a naly Úver all C yclic			_	HIP 33 T 01 5	0	CTR 36	FLT 14.0	TŔ	. 6	1 FLAP	bEND	STA	43
ZERU POSITIJN	USEU	9.51	L	JAC/IN USED		-26400.00							
LA		BJ		CJ .		' PHIJC	PSIJC		CJ/L	JMAX	J	F	KEQUENCY
-0.6348387E	04												
0.126331/E	Ú4	-0.306783ZE	03	0.1 <i>3</i> 00032E	04	50د ،346	346.350		0.13	6509	1		1.631
-0.89247u3E	U4	U. 3323432E	04	0.4523418E	04	159.575	79.786		1.00	3000	ż		3.263
-0.1880261E	0ż	U.1550238E	04	U.1556351E	04	40.091	30.230		U.16	3034	3		4.844
U. c074283£	02	U-14719136	U 4	U. 1272002E	04	89.366	22.266		0.13	3574	4		6.525
-U. 2660220E	60	Ú. 4015501£	03	0.4831307E	03	123.704	24.157		0.05	0732	5		0.157
-0.2379005E	U3	-U.213020UE	01	U.23791U1E	U3	180.514	30.080		0.02	4902	. 6		9.788
-0.26705792	دن	-0.1013544E	ذن	U. 2656436E	03	200.763	20.603		0.02	9994	7		11.419
£ د 155954 . Ü	03	-0.202314cE	Ú3	J. 3225254E	03	298.917	37. 365		0.03	3 86 7	Ė		13.051
0.02943416	U3	-U. 16448U9E	03	Ú.6502098E	03	345.155	38. 373		U. U.	211	9		14.682
-0.4121052E	03	0.2354414E	03	0.4745198E	-		15.028		U.04	9827	10		10.313

MARMUNIC ANALYSIS MODEL CL8705 Ship 33 T 010 CTR 36 FLT 14.0 TR 31 2 FLAP BEND STA 43 GVERALL CYLLIC LOAD = 0.988734E 04

ERO POSITION	USED	ئ.75	Lu	AD/IN USED		25900.00		•		
LA		La		CJ		DLIHG	PSIJC	CJ/CJMAX	J	FREGUENCY
-0.5513559E	U4									
0.4222363E	04	0.890237JE	03	0.4315188E	04	11.900	11.906	0.617433	L	1.631
-0.44432628	04	0.2850396E	04	0.5278549E	04	147.319	73.660	1.000000	2	3.263
-U. 1800045E	U3	-0.1557392E	04	U.1567769E	04	263.404	67. 30L	0.246485	3	4.894
-0.5581028E	03	0.3953594E	03	J.683950JE	03	144.636	36-172	0.129562	4	6.525
-0.5526331E	UZ .	-0.4606802E	03 ``	4719270E	03	203.275	52.655	0.089398	5	8.157
-U.5074Uslč	ڊن	-0.5342327=	دں	0.736792UE	03	226,475	ع7.740	0.139572	6	9.768
-0.1131881Ē	ڌن	-0.5433242E	3	U.5>49840E	03	258.232	30.840	0.105132	1	11.419
-0.2409456E	03	-U.5449U89E	03	0.5982539E	03	245.621	30.703	0.113328	8	13.051
0. 6123530£	دن	-0.3107850E	دن	0.6903625E	03	332.499	36.944	0.130776	9	14.682
-0.3789608E	03	-0.3404694E	02	U. 3805676E	03	145.254	18.525	0.072092	10	16.313

HARMUNIC ANALYSIS MODEL CL6705 SMIP 33 T 010 CTK 36 FLT 14.0 TR 11 3 FLAP BEND STA 43 OVERALL CYCLIC LOAD = 0.141999E 05

ZERU POSITIUN	USED	6.27	£.C	DAD/IN USEU	-	30400.00				
		BJ				PHIJC "	PS1JC	CJ/CJMAX -		FREQUENCY
-0.6300914E	04									
0.237117+E	04	-0.1935571E	04	J. 3060b66E	04	320.775	320.775	0.202146	1	1.631
-U. 1074424E	U5	0.4431740E	04	U.110762UE	05	157.588	78.794	1.000000	4	3.263
-0.4780132E	03	U. 1420601E	04	0.1498867E	04.	108.597	30.199	0.128369	3	4.894
0.1552810E	03	0.883512YE	03	0.8910547E	ذ٥	b0.032	20.008	0.0/6628	4	6.525
-0. 1402Ubu£	נט 🗀	U.3318U47E	د ن	0.4796J8ZE	ذن	136.225	21.245	0.041076	5	8.157
-0.225000oE	دن	0.24266202	03	0.3314778E	03	132.890	22.148	0.028389	6	9.788
-0.32221 ocE	03	-U.684013/E	0ż	0.3243470E	υż	191.985	27.426	0.028211	7	11.419
U 795947E	دن	-0.19783356	03	0.3423438E	د٥	324.676	40.587	0.029340	8	13.051
0. 7327260E	03	-J. 1976456E	03	0.7589150E	03	344.904	30.325	0.064497	9	14.682
-0. 352835YE	U3	0.25765UJE	02	U. 353/109E	03	175.820	17.582	0.030299	10	16.31.

Table III. (Continued)

TEST 14 N = 5 (CONTINUED)

HARMONIC ANALYSIS GVERALL CYCLIC LO		SHIP 33 T 0 04	10	CTR 36	FLT 14.0	TR 41 2 FLAF	6END	STA 118
ZERO POSITIJN US	i 0.39	LUAU/IN USED		-14150-00				
AJ	RJ	CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREUDENCY
-U.3315492E 04								
0.9322986Ē OJ	-0.13375102 (0.1630371E	04	334.878	304.878	0.517587	1	1.631
-0.25122J8E 04	0.19002608 (14 0.3149449E	04	142.896	71.440	1.000000	2	3.263
0.1111225c U3	U.6760252c ()J 0.6850895E	0.3	80.673	26.89L	0.217603	3	4.894
-0.90022696 02	Ú. 2200817a (3 0.23778166	03	112.247	28.062	U.075487	4	6.525
0.12616//E U3	0.52045436 ()	. 0 .	22.649	4.530	0.043401	5	8.157
U. 2067236E US	-0.8216341E (2 0.22245336	U3	24 . 8دد	56.387	0.070021	. 6	9.788
0-16299046 03	0.324507eE	2 0.1661899E	0.3	11.260	1.609	0.052760	· 1	11.419
-0.104251Jc 03	U. 2674243E	3 U.287U261E	.0	111.496	13.912	0.091121	8	13.051
-0.40411452 03	U.3027777c (-		9	14.682
U. 2827570E 03	-0.2460091E				31.878	0.110765	10	16.313

HARMONIC ANALYSIS MUDEL CL8705 SHIP 33 T 010 CTR 36 FLT 14.0 TR 34 2 CHORD BEND STA 21. OVERALL CYCLIC LUAD = 0.182398E 05

ZERO POSTTION USED	3.11	LU	AUTIN UZED	. •	-20300.00				
AJ .	91		ÇJ		PHIJC	PSIJC	XAMLD\LD	J	FREQUENCY
0.1587740E U4						•			•
0.8293716E C3	0.1317835E	C)	0.8397761E	03	9.029	9.029	0.058805	1	1.631
-0.1d49239E 03	-0.3821147b	04	0. 3625019E	04	207.229	133.615	U.267887	2	3.263
-0.6006293E OL	-0.5795977E	03	0.57962876	03	269.406	69.602	0.040588	3	4.894
-0.5879906E 04	0.1301405E	05	0.1420072E	05	114.314	20.579	1.000000	4	6.525
-0.1827260E 04	0.21192182	`` دن) 9508E ودها •0	04	173.385	34.677	0.128611	5	8.157
0.2466585E 03	-0.19471090	03	0.3142532E	03	321.712	53.619	0.022005	6	9.768
-U. 3521717E O2	Ú. 41 6330 JE	ڌ0	U.4190100E	03	74.014	13.545	0.029398	7	11.419
0.13621036 03	-0.1508750£	03	U.ZU77571E	ŁÚ	310.967	38,871	0.014548	8	13.051
-0.1996323E U3	0.17272626	63	0.26398362 (03	139.133	15.459	0.018485	9	14.682
-0.4026974E 02	_ 0.2570350c	03 _	_0.2609601E	03	98.877	9.888	_0.018274	10	16.313

MARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 36 FLT 14.0 TK 38 2 CHOKD BEND STA 69 UVEKALL CYCLIC LUAD = 0.112020E 05

SEKO POSTITON	OSED	1.13		MALLIN MISER		10200.00				
LA		BJ				- PHIJC	PSIJC	"CJ/CJMAX"		FREQUENCY
0.15988598	04			•						
0.3745166E	03	0.2911838£	03	0.4743950E	03	37.665	37.865	0.054449	1	1.631
ع81د929د ۵۰	ŊΙ	-0.220130dt	04	U. 2201374E	U4	270.135	135.068	0.259550	2	3.263
-0.1501417E	Ú2	-0.36046886	03	0.36077648	03	257.653	89.218	0.042097	3	4.894
-0.4931 /74E	04	U. 8204594E	04	0.0712672E	04	109.664	27.416	1.000000	4 -	6.525
-0. 1180cocE	u4 "	0.25500000	ŁŪ	3+1<6121.0	0+	167.838	802.tt	0.144.84	··· 5 · ·	8.157
0.24894136	60	-0.99426276	02	0.26806236	03	338.228	50.371	0.030767	6	9.703
-U. 1900001 č	03	U. 3405334Ł	03	U.4340774E	ÚJ.	116.040	16.578	0.049690	7	11.419
J 155025E	US	-0.24362536	03	0.26905316	د٥	295.381	36.923	0.030950	6	13.051
U. 4380090Ē	02	0.19050248	دن	U.195+730E	03	77.051	8.561	0.044435	¥	14.682
-U-1797504E	U2 :	0.3024344L	ŁU	34619201.0	03	92.841	9.284	0.041627	LO	16.313

Table III. (Continued)

TPCT	1 1.	44	_

MARMONIC AMALYSIS OVERALL CYCLIC LOA		541P. OF 04	33 ['] T 01	.0 СТ	R 37 FLT	14.0	TR 6 1 FLAT	BEND	STA 43
ZERO POSITION USES	9.51	L04071	N USED	-26	403.00				
			CJ		PHIJC	PSIJC	CJ/CJMAX	j	FREQUENCY
-0.4669G90E 04 -0.2285338E 04	0.2515811E	06 0	3328834F	04	132.252	132.252	1. 000000	,	1.667
-0.6459492F 03	0.1089725E		1266787E		120.658	60.329	0.372712	2	3.333
0.8205186F 03	J.8521895F		1182995E		46.085	15.362	0.344059	3	5.000
-C.2447598F 03	0.235 LR07E		339435PF		135.143	34.036	0.099869	2	6,667
-0.21240425 03	0.1921351F		2799049E		137.364	27.879	0.082324	5	8.333
-0.1654129E 03	-0.89566F3F		18610548		235.434	34.739	0.055344	é	10.000
-0.2169366F 03	-0.2090271E		30125375		223.936	31.391	0.038634	7	11.667
-0.1740309" 02	-0.1705558E		1714553E		264.174	33.022	0.050445	8	13.333
0.47998805 03	-0.334J14oE	03 0,	5847686E	03	325.167	36.130	0.172050	9	15.000
-0.6990050E 02	-0.3454099E	C3 0.	35241L9E	03	253.559	25.856	0.103636	10	16.667
HARMONIC ANALYSIS OVERALL CYCLIC LO			33 T 01	.о ст	R 37 FLT	14.0	TR 31 2 FLAI	BEND	STA 43
CALUMER OFFICE CO.	0.98065	2E U*							
ZERO POSTTION USE			N USED	25	900.00				
			CJ	25	PHIJC	PSIJC	CJ/CJMAX	J	FR EQUENCY
ZEPO POSITION USE	3.75	LOAD/				PS1JC 74.417	CJ/CJMAX 0.540053	J	
ZEPO POSITION USED	3.75 	LOAD/1	(J	04	PHIJC			J l 2	1.667
AJ 0.37483285 03 0.59383506 03 0.693656946 03 0.25131605 04	3.75 PJ 0.20934C8E 0.9808472E -0.3143002E	04 0.03 0.04 0.04 0.04 0.04 0.04 0.04 0.	CJ 2173297E 1292697E 4024230E	04 04 04	PHIJC 74.417	74.417 24.939 102.882	0.540053	J 1 2 3	FREQUENCY 1.667 3.333 5.000
AJ 0.37883285 03 0.58383506 03 0.62659946 03 0.25131605 04 -0.40162556 03	0.20934C8E 0.9808472E -0.3143002E -0.99022666	04 0. 03 0. 04 0. 03 0.	CJ 2173297E 1292697E	04 04 04	PHIJC 74.417	74.417 24.939	0.540053 0.318743	_	l.667 3.333
AJ 0.37883285 03 0.5838350E 03 0.6265894E 03 0.2513160F 04 -0.4016255E 03 -0.2062504F 03	0.20934C8E 0.9808472E -0.3143002E 0.9902266E 0.6136343E	04 0. C3 0. C4 0. C3 0.	CJ 2173297E 1292697E 4024230E 1065574E 6473687S	04 04 04 04	74.417 49.878 308.646 112.077 108.579	74.417 24.939 102.882 28.019 21.716	0.540053 0.318743 1.000000 0.265535 0.160868	_	1.667 3.333 5.000 6.667 8.333
AJ 0.37883283 03 0.59383506 03 0.62658948 03 0.25131609 04 -0.40162556 03 -0.20625049 03 0.23763218 04	0.20934C8E 0.9808472E -0.3143002E 0.9902266E 0.6136343E 0.5312051E	04 0. C3 0. C4 0. C3 0. C3 0.	CJ 2173297E 1292697E 4024230E 1066574E 6473687E 2924962E	04 04 04 04 03	PHIJC 74.417 49.878 308.646 112.077 108.578 10.464	74.417 24.939 102.882 28.019 21.716 1.744	0.540053 0.318743 1.000000 0.265535 0.160868 0.726837	3 4 5 6	1.667 3.333 5.000 6.667 8.333
AJ 0.37683285 03 0.5938350E 03 0.62658946 03 0.25131605 04 -0.4016255E 03 -0.20625046 03 0.2376321E 04 0.5955884E 03	0.20934C8E 0.9808472E -0.3143002E 0.99022665 0.6136343E 0.512051E 0.5589534E	04 0. C3 0. C4 0. O3 0. C3 0. C3 0. C3 0. U2 0.	CJ 2173297E 1292697E 4024230E 1065574E 6473687E 2924962E 5984641E	04 04 04 04 03 04	74.417 49.878 308.646 112.077 108.579 10.464 5.647	74.417 24.939 102.882 28.019 21.716 1.744 0.907	0.540053 0.318743 1.000000 0.265535 0.160868 0.726837 0.148723	3 4 5 6 7	1.667 3.333 5.000 6.667 8.333 10.000
AJ 0.37883285 03 0.59383506 03 0.82658946 03 0.25131607 04 -0.40162556 03 -0.20625046 03 0.2373216 04 0.59558646 03 -0.63290896 02	0.20934C8E 0.9808472E -0.3143002E 0.99022666 0.6136343E 0.5312051E 0.5687574E -0.3086777E	04 0. C3 0. C4 0. O3 0. C3 0. U2 0. C3 0.	CJ 2173297E 1292697E 4024230E 1065574E 6473687E 2924962E 5964541E 3150994E	04 04 04 04 03 04 03	74.417 49.878 308.646 112.077 108.579 10.464 5.647 259.413	74.417 24.939 102.882 28.019 21.716 1.744 0.907 32.302	0.540053 0.318743 1.000000 0.265535 0.160868 0.726837 0.148723 0.078300	3 4 5 6 7 8	l.667 3.333 5.000 6.667 8.333 10.000 ll.667 13.333
AJ 0.37683285 03 0.5938350E 03 0.62658946 03 0.25131605 04 -0.4016255E 03 -0.20625046 03 0.2376321E 04 0.5955884E 03	0.20934C8E 0.9808472E -0.3143002E 0.99022665 0.6136343E 0.512051E 0.5589534E	04 0.0 C3 0.0 C4 0.0 C3 0.0 C3 0.0 U2 0.0 C3 0.0	CJ 2173297E 1292697E 4024230E 1065574E 6473687E 2924962E 5984641E	04 04 04 04 03 04 03 03	74.417 49.878 308.646 112.077 108.579 10.464 5.647	74.417 24.939 102.882 28.019 21.716 1.744 0.907	0.540053 0.318743 1.000000 0.265535 0.160868 0.726837 0.148723	3 4 5 6 7	1.667 3.333 5.000 6.667 8.333 10.000 11.667

MARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 37 FLT 14.0 TR 11 3 FLAP BEND STA 43 CVERALL CYCLIC LOAD = 0.462323E 04

ZERO POSITION	used	R. 27	L	DEZU NINCAC	-	30400.00			٠	
AJ -0.4998754E	04	ВЈ		CJ	~	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1309313E	_	0.9177595E	03	. 0.1598112E	04	144.951	144.951	0.587692	1	1.667
-0.2219022E	04	0.157179BE	04	0.2719303E	04	144.689	72.344	1.000000	2	3.333
0.7590925E	03	0.9196318E	Ç3	0.11924538	04	50.463	16.521	0.438514	3	5.000
0.554105PE	02	0.3467334E	C3	0.3511328E	03.	99.080	24.770	0.129126	4	6.667
-0.12514188	03	0.17495265		0.2151101E		125.574	25.115	0.079105	5	8.333
-0.1893736F	03	-0.55987188	CZ	0.19718928	03	196.495	32.749	0.072515	- 6	10.000
-0.2229613F	03	-0.2383566F	03	0.3263926E	03	226.911	32.416	0.120024	7	11.667
0.1593934E	03	-0.3995616E	G2	· 0. 1643252F	03	345.927	43.241	0.060429	8	13.333
0.4º25723E	03	-0.3502202E	03	0.60439535	03	324.587	36.065	0.222257	9	15.000
-0.4552517E	0 <u>1</u>	-0.1607917E	03	0 <u>.</u> 1608561E	.03 _	268.378	26,838	0.059153	10	16.647

Table III. (Continued)

TEST 14 N =	6 (CONTINUED)							
	SIS MODEL CL8705 LOAD = 0.15810		T 010 CTF	37 FL1	T 14.0	TR:41 2 FLAP	BEND S	STA 118
ZERO POSITION	USFD 0.39	LOAD/IN USE		150.00				
	BJ.	с.		PHÍJC	PSIJC	XAMLD\LD	 j	FREQUENCY
-0.1610236E	04							
_0.1213653E	03 -0.56892198	03 0.58172		282.042	282.042			1.667
0.11853076	02 0.96537506			89.297	44.648		. 2	3,333
0.36648935				49.855	16.618	0.588784 0.219982	3	5.030
-0.16720345				141.932	35.483	0.219982	4	
0.15331856				1.344	0.269	0.158849 0.063392 0.216671 0.070837 0.444135	ο,	8.333
0.51125236				33.347	5.558	0.063392	٥	10.000
0.2037710E	0.47279858			13.063	1.566 9.714	0.210071	,	11.667
0.14555688				77.711	14.085	0.010631	6	15.000
-0.2566541E	03		72F 02 3	126.767		0.052474	10	
0.30500365	75	. 00 0. 20.00	126 02	124.602	32.750	0.052777		10.001
•								•
	SIS MODEL CLA705 LOAD = 0.53553		T OLO CTE		T 14.0	Tº 34 2 CHOR	C BEND	STA 21.
ZERO POSITION	USED 3.11	LOAD/IN USE		300.00			•	
L		с л		PHIJC	PSIJC	CJ/CJMAX	.	FREQUENCY
0.3384075E	04							•
0.6335193F	0.61943369	C2 0.63654	03E 03	5.584	5.584	0.188771	1	1.667
-0.6767556E	03 -0.49888929	0.84076	66E 03 7	216.397	108.196	0.249336	2	3.333
0.3524231E	03 . 0.29751445	03 0.46121	24E 03	40.171	13.390	0.136776	3	. 5.000
-0.3352524E	04 -0.36212409	0.33720	25E 04 1	196.165	46.541	1.000000	4	.6.667
-0.7417249F	03 0.62951816	03 0.97285	60E 03	139.678	27.936	0.288508	5	8.333
0.1487115E	03 0.1172261F	0.18935	96E 03	38.248	6.375	0.056156	6	10.000
0.1382930E	03 _ 0.56116675	01 0.13840	68E 03	2.324	0.332	0.041346	7	11.667
0.1228218E	03 0.19112055	Cl 0.12283	57E 03	0.891	0.111	0.036428	8	13.333
-0.293296lE	0.10335166	0.30998	885 03	161.112	17.901	0.091930	9	. 15.000
-0.1110798E	03 -0.6939301E	02 0.13097	375 03 2	211.994	21.199	0.038841	19	L6.667_
	SIS MOREL CL2705		T OLO CTR	37 FL1	T 14.0	TR 38 2 CHOR	C BEND	STA 69
ZERO POSITION	USED 1.15	LOAD/IN USE	D 162	200.00			•	
AJ	BJ	CJ		PH1JC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.6436653E								
0.3258926E				17.462	17.462	0.171850		1.667.
-0.2548511F				232.117		0.208781	2.	3.333
C. 2203390F				37.085		0.138942	3	5.000
0.19866POF	or response a final a					1.000000		6.667
-0.3881326F				126.968	25.394		5	8.333
0.1272105F				40.142	6.690	0.083710	6	10.000
-0.3537712F				178.834	25.549	0.017900	7	11.667
0.1575431E				3.029	0.379	0.079362	8	13.333
+045151173E -0.1388564E		02 0.60441 02 0.14865		146.458	16.495	0.030405 0.074782	9 10	15.000 16.667

Table III. (Continued)

TEST 16 N - 7

ZERO POSITION USED

8-27

HARMONIC ANALYSIS P PVERALL CYCLIC LOAD		SH 6 05	IP 33 T 010	o c	TR 38 FL	T 14.0	TR 6 1 FLAP	BEND S	STA 43
EPO POSTTION USED	7.51	เว	AD/IN USEC	-2	6400.00				
ΔJ	BJ				PHTJC "	PSIJC	CJ/CJHAX	. 1	FREQUENCY
-0.6471895E 04									
-0.2455984E 04	-0.55401 29E	03	0.2517695E	04	192.712	192.712	0.338221	. 1 .	1.709
-0.2366569E 04	0.7057734E	04	0.74439418	04	109.537	54.269	1.000000	2	3.419
0.1053483E 04	0.16362COE	04	0.19460165	3 4	57.224	19.075	0.261423	3	5.128
-0.7079146E C2	0.6849365E	03	0.86775278	03	94.573	23.643	J. 119260	4	6.838
-0.1203536E 03	0.4794651E	C 3	0.4943396F	ວ3 ີ	104.091	20.918	0.056408	5	8.547
-0.2952505F 03	0.4519780E	02	0. 2786399E	03	171.297	28.549	0.040125	6	10.256
-0.13978388 03	-0.2824F32E	03	0.31473415	03	243.835	34.934	0.042281	7	11.966
0.96719395 02	-0.2036264F	03	0.2227231E		295.738	36.967	0.029920	Ŕ	13.675
0.11416355 04	0.5360403E		0.12612185		25.152	2.795	0.169429	ğ	15.385
-0.3101291E 02	-0.1632212E		0.1661414E		259 . 24 L	_ 25.924	0.022319	10	17.094

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTP 38 FLT 14.0 TR 31 2 FLAP BEND STA 43 OVERALL CYCLIC LOAD = 0.122989E 05

ZERO POSITION USE	D 3.75	LOAD/IN USED	25 900.00				
AJ -0.6947514E 04	. eJ	c1	PHTJC	PSTJC	CJ/CJHAX	J	FREQUENCY
-0.2036904E 04	-0.1932486E			224.224	0.323597	1	1.709
-0.1335893F 04 0.1091639E 04	0.8681570E 0.1657482E			49.374 18.877	1.000000 0.225948	2	3.419 5.128
-0.1449178E 03 -0.6351160E 02	0.5697517 <u>F</u> 3.2135125E	0.6072959	_03103.806_	25.951_	0.069139	<u>.</u>	6.838
-0.2318048E 03	0.7223549E			21.313 27.115	0.025360 0.027642	6	8.547 10.256
-0.1529052E_03	-0.2077509E -0.3303892E			33.378 35.500	0.029367	7	11.966 13.675
0.1141284F 04	0.5074185F	C2 0.11424118	04 2.546	0.283	0.130060	9	15.385
0.1459820E_02	<u>-0.2303505E</u>	<u>0.23081269</u>	<u> 03 273.626</u>	27.363.	0.026277_	LO	17.094

HARMONIC ANALYSIS MODEL CL3705 SMIP 33 T 010 CTR 38 FLT 14.0 TR 11 3 FLAP BEND STA 43 CVERALL CYCLIC LCAD = 0.125487E 05

LOAD/IN USED

AJ	8J	CJ	PHIJC	OLIZA	CJ/CJMAX	j	FREQUENCY
-0.6719141E 04							
-0.1638544F C4	-0.2214628E 04	P. 2754688E 04	233.503	233.503	0.301081	1	1.709
-0.45520595 04	0.7937301E 04	0.9149973E 04	119.834	59.917	1.000000	2	3.419
0.6465764F 03	0.1617934E 04	0.17423465 04	68.217	22.739	0.190421	3	5.128
0.468967CE_C2_	0.4637285E_03	0.4660938E_03	95.775_	23.944	0. 050939		6.838
-0.17021125 03	0.1572923E 03	0.23176005 03	137.259	27.452	0.025329	5	8.547
~0.38681359 03	0.8952126E 02	0.3º70374E 03	166.969	27.928	0.043392	6	10.256
-0.13496278 03	-0.4129685E C3	0.4344626E 03	251.902	35.986	0.047482	. 7	11.966
0.6737000E 02	-0.2034766E Q3	0.21471955 03	288.286	36.036	0.023467	e	13.675
0.8725085E 03	0.71902A1E 03	0.1130607E 04	39.492	4.386	0.123564	9	15.385
0.66214198 01	-0.2057303E 03	0.20580685 03	271.844	27.184	0.022493	10	17.094

-30400.00

Table III. (Continued)

HAPMONIC ANALYSIS HODE			T 010	CTR	38 FLT	14.0	TR 41	2 FLAP BEND	STA 118
OVERALL CYCLIC LTAD =	0.419405F	04			•				
2500 00512100 0550			••	14 150	30				:

ZERO POSITION	USEC	0.39		LTAC/IN USED	-	14150.00				£	
		вј				PHIJC	PSTJC	CJ/CJMAX	j	FP	EQUENCY
-0.2008151E	04					· ·	•				•
-0.5670315E	01	-0.1430197E	04	0.1430229E	04	269.613	269.613	0.453811.	1 '		1.709
-0.15100075	03	0.3147979E	C4	0.3151598E	04	92.746	46.373	1.000000	2		3.419
0.47054745	03	0.6172126E	03	.0.7751226E	03	52.679	17.560	0.246263	3.		5.128
-0.90763295	0.2	0.25451045	03	0.2733647E	03	111.404	27.851	0.086738	4		6. '38
0.15592835	03	-0.19012375	01	0.1559398E	03	359.301	71.560	. 0.049480	5	٠.	8.547
0.1344795E	03	0.73453996	02	0.15323265	03	28.644	4.774	0.049621	6		10.256
0.24468495	03	0.36009725	C 3	0.43536258	·03	55.804	7.972	0.138140	7		11.966
-0.11233185	01	0.21622375	03	0.21582665	03	93.297	11.267	0.069799	. 8	1.	13.675
-0.7085 F37F	03	0.1677180F	C3	0.7291621E	03	166.683	18.520	0.231045	. 9		15.385
-0.49946825	01	0.12153865	C3	0.12164148	93	92.353	9.235	0.038597	10		17.094

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 38 FLT 14.0 TR 34 2 CHORC BEND STA 21. OVERALL CYCLIC LOAD = 0.862061F 04

ZERO POSITION	USED	3.11		LOAD/IN USED	-	20 300 .00				
· · · · · · · · · · · · · · · · · · ·		9.3				PHIJC	PSTUC	CJZCHAX		FREQUENCY
0.3572732F	04									
0.7630908E	03	-0.8451931E	01	0.78313658	03	359.382	359.362	0.144251	L	1.709
-0.2692382E	04	-0.1373896E	C4	0.3022666E	04	207.035	103.517	0.556763	2	3.419
0.7515250E	02.	-0.2735508E	03	0.28368638	03	254.638	84.879	0.052254	3	5.128
0.2884910E	04	0.4599063E	04	0.5429000E	04	122.099	30,525	1.000000	4	6.838
-0.1133086E	04	0.1025035F	C4	0.1527933E	04	137.866	27.573	0.281439	5	8.547
-0.5277C63E	02	-0.3331415E	02	0.6740651E	02	212.264	35.377	0.011495	6	10.256
0.1923113F	03	0.11229.04F	C3	0.2226943E	03	30.281	4.326	0.041019	7	11.966
0.1395999E	02	0.5278818E	C2	0.5460286E	20	75.187	9.398	0.010058	8	13.675
-0.2608281E	03	0.3981264E	02	0.2638489E	03	171.321	19.036	0.048600	9.	15.385
-0.3870842E	02	0.1141179E	Ç3	0.1205041E_	03	108.737_	10.874	0.022196	10	17.094

HAPMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 38 FLT 14.0 TR 38 2 CHORC BEND STA 69 OVERALL CYCLIC LCAD = 0.535475E 04

SEKO POSITION	USED	1.15		LOAD/IN USED		16 200 . 00						
AJ		PJ	—	CJ .		PHIJC	PSIJC	CJ/CJMAX		FR	EQUENCY	
0.1917920E	03											
0.4327388E	03	0.169665E	03	0.4648113E	03	21.409	21.409	0.142407	1		1.709	
-0.1412314E	04	-0.9308350E	C3	0.1691474E	04	213.388	106.694	0.518229	2		3.419	
-D.1473583E	02	-0.1391184E	C3	0.1398966E	03	263.953	£7.984	0.042861	3		5.128	
0.1583693F	04	0.285399PE	04	0.3263953E	04	119.026	29.757	1.000000	4_		6.838	
-0.6991704E	03	0.6960056F	-G3	0.5767759E	03	134.676	26.935	ū. 299874	5		8.547	
0.1767041F	02	-0.1786037E	02	0.2512440E	ΟŻ	314.694	52.449	0.007698	6		10.256	
0.1751022F	03	0.1573275E	CS	0.1758076E	. 03	5.134	0.733	0.053663	7	•	11.966	
0.139204RE	03	0.3461772E	, C2	0.1145603E	03	17.589	2.199	0.035099	8		13.675	
-0.4325926F	02	0.9614557E	Cl	0.4970770E	02	168.733	18.748	0.015076	9		15.385	
0.0J98625F	_01	0.9254616E	_ C2	0.9799231E	.02.	95.6L5	9.561	U.02849 L	10_,	<u></u>	17.094	

Table III. (Continued)

TEST 14 N = 8							•				
HARMONIC ANALYSIS M			33	T 010	CTR	40 FL1	Γ 14+0 ·	TR 6	1 FLAP	BEND ST	TA 43
ZERO POSITION USEC	9.51	LOADA	IN USE	C	- 26 400	•00					
	В.J				"	1 JC	PSIJC	CJ/	XANU	j	FREQUENCY
-0.4476105F 04										_	
-0.6396172F 03 -0.4515465E 04	0.2649996E			60E 04		.549 .260	103.549 £7.630		01607 00000	1	3.317
0.3310410F 03	0.11144275			555 04		.456	24.485		56580	3	4.975
-3.7605726F 03	J.4333760E			745 03		.325	47.591	0.19	93199 <u></u>		6. 633
-0.2694450E 03	0.27233895			64E 33		.654	26.939	0.0	84553	5	8.292
-0.16393765 03	-0.87323355		-	42E 03		.043	34.674		40994	6	9.950
-0.25843855 03	-3.18962865	G3 0	. 31995	48E 03		.125	30.375		70615	7	11.609
0.4670149F 02	-0.111°301F			225 03		.648	36.581		26767	ē	13.267
0.69880256 03	-0.6319631F	C3 0	. 53479	66E 03	317	.464	35.274	0.20	06311	9	14.925
-0.9738064E 01	-0.2098352E	_030	. 29939	32E_03	262	.140	26.814	0.0	66210	10	16.584
HARMONIC ANALYSIS P	100EL CL8705	SHIP	33	T 010	CTO	40 E11	T 14.0	TD 21	2 EL AD	BEND \$1	7A 43
CALL CALLE TONE				. 010	CIR	40 12	4.0	15 31	Z ILM	DEND 3	17.
the second core								•	•	• •	
ZERO POSITION USED	3.75	LOAD/	IN USE	D	25900	.00					
AJ						IJC			JMAX		FREQUENCY
-0.5158773E 04	6,1			,	78	1 JC	h211C	CJ/	JMAX	J	PREQUENCY
	0 12074475	04 0	12004	97E 04			07 (1)			•	1 450
0.5452734E 02 -0.4653445E 04	0.2044757E			71E 04		.414 .279	97.414 78.139		00000	<u>1</u> 2	1.658 3.317
0.5565850F 03	0.10913728			36E 04		.973	20.991		40973	3	4.975
-0.5262666E 03	0.4016550E			56E 03		. 648	35.662		30248	4	6.633
-0.1232762E 03	0.2219322E			81E 0		.056			49938	5	8.292
-0.1489348E 03	J.1176942E			49E 03		.693	23.614		37346	6	9.950
	-0.1094914E		-				30.375			-	11.609
0.8171440E 01	-0.7513910E			C9E 02		. 207	34.526		14870	8	13.267
0.3800 90PE 03	-0.6156709E			66E 03		-699	33.521		42350	Š	14.925
0.5107454E 02	-0.3604421E			27E 03		.065				10	16.584
•											
garan sama											
HARMONIC ANALYSIS H	OCE	Cu I D	12	T 010	C T D	40 513	Г 14.0	70		0500 61	
UALLATIC THREADS L			>>	1 010	CIR	40 FL	14.0	IM II	3 PLAP	BEND 5	A 43
								•			
ZERO POSITION USED	8.27	/ DAC/	IN USE	C	- 30 400	•00					
AJ											
-0.4993570E 04	BJ		C.J		PH	IJC	PSIJC	6170	JMAX	J	FREQUENCY
0.3566234E 03	0.84759746	C3 0	01064	79E 03		.181	47 101		4003	,	1 450
-0.6205844E 04	0.10754278			36E 04		•169	67.191 85.384		16002 16000	l	1.658. 3.317
0.12645975 03	0.10680878			51E 04		• 107 • 246	27.749		707 <i>6</i> 7	3	3. 31 1 4. 975
-0.4414446E 03	0.37851785			59E 03		.388		0.0		4	6.633
-0.2244520E 03	0.2744126E		- :	51E 03		• 201 • 201	25.956		6287	_	8.292
	-0.4650803F			38E 03		.456	32.243		1733	. 6	9.950
-0.1728 gale 03	-0.1097317E			72E 03		•635	29.948		35234		11.609
0.47810JOE 02	-0.6609700E			76E 02		.879	38.235		12952	Ŕ	13,267
0.6520217E 03	-0.4982974E			94E 03		.612	35.846		30293	ő	14,925
0.8755794E 02							28.908			•	16.584
and the second s	The second secon			73	204		249 700	26 0		•	

Table III. (Continued)

TEST 14 N = 8	(CONTINUED)						·
				·			
HAPMONIC ANALYS! Overall cyclic i) CTP 40 FL	LT 14.0	TR 41 2 FLA	P BEND,	STA LLB
ZERO POSITION US	SED 0.39						
-0.1596437F 0	BJ	СЛ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.4862307F 0				312.139	0.454440	,	. 1 460
-0.1251c69F 0			312.139	70.865		. 1 2	1.658 3.317
0.23804975 0				21.022		3	4.975
-0.19513565 03			3 132.505	33.126		_	
0.1525963F 0				69.078	0.098890		8.292
0:11316495 0				3.173		6,	9.950
0.22604499 0					0.142429	7	11.609
-0.63611825 0				27.777		é	13.267
-0.1744744E 0				12.473	0.298832	ğ	14.925
-0.32463685 0			98.370			10	16.584_
		TEL THE CENTRAL	(
				,			
HARMONIC ANALYS!	S MODEL CL3705	SHIP 33 T 010 9E 05) CTR 40 FE	LT 14.0	TR 34 2 CHO	RC BEND	STA 21.
FERC POSITION US	SED 3.11	LOAD/IN USED	-20300.00				·
AJ	LIF		PHIJC	PSIJC	CJ/CJMAX	<u>_</u>	FREQUENCY
0.3367803E 04	,						
0.7294592E 0	0.16417275	_03 0.74770535 0	12.664	12.624	0.067057	1	1.658
-0.1916137E 0	-0.1645287E	04 0.1656407E 0	263.357	131.678	0.148554	2	3.317
0.1923798E 03	-0.1770977E	03 0 3414037E 0		105.789			4.975
-0.11149615 05	0.11720G6E	C3 0.1115022E 0	179.398			4	6.633
-0.2353173E 0	0.10101076	C4 0.1037155E 0	103.114	20.623	0.093017	5	8.292
0.5414180E 0	0.20364285			3.435		6	9.950
-0.1187644E 0	0.1917935E	_030.22556755_0	13 121.767	17.395	0.020232	1	11.609
0.3885579E 0	0.8206836E	02 0.3971301E 0	11.926	1.491	0.035616	8	13.267
-0.1243490E 03				17.391	0.012159	ě	14.925
-0.2275373F_0	-0.7555338E	00 0.22753865 0		18.019	0.020407	10	16.584
•			_				
HARMONIC ANALYSI	S 400EL CL8705	SHIP 33 T 010	. CTP 40 EI	T 16.0	TO 38 2 CMD	OF BEND	574 40
VERALL CYCLIC I			- CIA 40 FE	.1 14.0	1K 36 2 600	NO BEND	31A 07
PERO POSITION US	SEC 1.15	LOAD/IN USED	16200.00		•		
-0.2152661E 03	8J	CJ	PHIJC	PSIJC	CJ/CJMAX	j	FREQUENCY
0.3689836E 03		C3 0.3892556E 0	19 672	10 573	0 257000	,	1 450
-0.2592090E 02				134.207			1.658
0.13805248 03				101.717		2	3.317
-0.67966568 04						. 3	4.975
-0.1721940E 03			- 1/2+364	20.643	1.000000		6.633_
				1.902		6	8.292
0.37082795 03		Usateaumic U					9.950
0.37082795 03		03 0.16000755 0	12 122 410	17 44 0	A A 34 7 0 4		
-0.93620445 02	0.1408161E			17.660			
-0.9362044E 02	0.1408161E 0.3654619E	C2 0.3306807E 0	6.345	0.793	0.048491	8	13.267
-0.93620445 02	0.1402161E 0.3654619E 0.1586497E	C2 0.3306807E 0 C3 0.1821603E 0	6.345 3 119.433	0.793 13.270		8 9	

Table III. (Continued)

		 _
TPST	14	 y

1231 44															
HAPMONIC CVEPALL											LT 14.0	TR 6	1 FLA	P BEND	STA 43
ZEPO POS	RELEGI	USED	9	.51	ι	ATVOAE.	USEC		- 25 400	.00					
	4J			ej			.CJ		PH	ı JC	"PSIJC	CJ/CJ	ÝAX	J	FREQUENC
-0.338	5076E	04													
-0.112						0.49							000		1.66
-0.175			-0.244				016800			. 294			529		3.32
0.443			0.520				934255			.557	16.519		633		4.99
-0.198			0.146				• 67233		143	.713	35.°28		741		6.65
-0.107			0.233				571401			.741	22.948	0.05	7052	5	8.31
-0.257 -0.244			-0.241 -0.164				591765			.362		0.057	262	7	9,58
3.169			-0.174				434513		213	.085			015		11.64
	78677E		-0.149				532695			.727			568		14.97
															16.63
***									•••						
													. —		
ARMONIC	: ANAL	2124	MODEL CO	L 3 705		SHIP :	33 T	310	CTR	41 F	LT 14.0	TR 31	2 FLA	P BEND	STA 43
VERALL_	CACITI	C_LQA	C = 0 .	5,305,4	1.EC	04									··
ERO POS	HEITIGH	USED	_	.75		N I V GAO									
	J.			BJ			_CJ	··· ·	PH	I JC	PSTJC	CJ/CJ	MAX		FREQUENC
-0.430															
-0.558							140457			.494				1	1.66
-0.344			-0.839				544399			.708	96.854			2	3.32
0.682			0.103				235953			-462	18.821	0.348		3	4.99
0.139			0.297				28929 <u>7</u>			.148_			8.03		6.65
-0.917			0.379				902307			-606	20.721			5	8.31
-0.106			0.759				306866			.452				6	9.98
	57932E		-0.283				521455 499903			.073 .725			747		
	20266E		-0.156				+99903 550737			•125 •363				9	13.31
			0.157						170			0.021		10	14.97
_ 594 (09	124BCA		V.0 6.4.5	20066			120229	LU.		a.Q.D.Q	11.009_	V&M&J	. 3.4 u		16.63
								,							
			MODEL C								LT 14.0	TR 11	3 FLA	P REND	STA 43
			₽ + ,0•0												
EPO POS	ITION	USED	8	. 27	Ł	NIVGGO.	USED	•	-30400	.00					
	AJ			BJ			CJ		РН	ÜÜ	PSIJC	CJ/CJ	MAX	J	FREQUENC
-0.400						_		_							
0.270											82.787		869		1.66
-0.448			-0.214			-	71316			541	102.773	1.000		S	3.32
0.113			0.115				58267			366	28.122	0.232		. 3	4.99
	2590E		0.2029								31.397				6.65
												0.085			
-0.217	149845		0.3649				44534			822	24.164			5	8.31
-0.217 -0.149	14984E 13845E	03	0.7429	9796E	02	0.10	68410	E 03	153	.556	25.593	0.033	561	6	9.98
-0.217 -0.149 -0.205	14984E 13845E 1276E	03 03	-0.568	9796E 1348E	02	0.16	684101 284551	E 03	153 195	.556 .481	25.593 27.926	0.033	561 816	6 7	9.98 11.64
-0.217 -0.149 -0.205 0.410	14984E 13845E	03 03 01	0.7429	9796E 1348E 5738E	02 02 C3	0.10 0.21 0.12	68410	E 03 E 03 E 03	153 195 271	.556	25.593	0.033	561 816 268	6 7	9.98 11.64 13.31

Table III. (Continued)

TEST	14	M .	Q	(CONTINUED)

MACHENITE ANALYETE	MODEL CLUBAS						
MARMONIC ANALYSIS OVERALL CYCLIC LO			CIR 41 F	L1 14.0	TR 41 2 FLAI	S REND 'S	STA 118
ZERT POSITION USE	0.35	LOADZIN USED	-14150.00	,	•		
-0.1439674E 04	ВЈ	cı	PHTJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.52539508 03	-0.3597342E C3	0.6367766E 03	325.597	325.597	0.732963	1.	1.664
-0.86334385 03	0.9694335E 02	0.86877UDE 03		P.6.796	1,000000	ž	3.328
0.2639219F 03	0.4531475E C3	Ø. 5244C19€ 03		19.928	0.603614	3	4.992
-0.14955005 03	0.1943010E C3	0.2452374E 03		31.894	0.282281	4	
0.12947155 03	20 32909611.0	0.1300136E 03	5.234	1.047	U. 149652	5	8.319
0.9037169F 02	0.6715381E 02	0.1125907E 03	36.615	6.103	G. 129598	6	9.983
0.16025038 03	0.12324738 63	0.20218795 03	37.573	5.366	0.232729	7	11.647
0.46013735 J2	0.1664480F C3	0. 1726911F O	74.547	9.318	0.198776	8	13.311
-0.2375661F 03	U.2422909E 03	0.3393267E 03	134.436	14.937	0.390583	9	14.975
0.13133998_03_	0.4948389E_02	0.1127760E_0	26.026	2.603_	0,129811	10	16.639
HARMONIC ANALYSIS	MODEL CL8705	HIP 33 T 010	CTR 41 FI	T 14.0	TR 34 2 CHOR	C REND	STA 21.
SVERALL CYCLIC LOA						.b ozno	31A 226
CERD POSITION USED	3.11 (DED/EN USED	-20300.00			,	
AJ 0.32232905 04	BJ	c)	PHTJC	PSTJC	CJ/CJMAX	J	FREQUENCY
0.75785895 03	0.23140205 02	0.7924258E 03	14 004	14 004	0.206212		
0.4281794F 03	-0.1237642E 04			144.542		2	1.664 3.328
0.3735890E 02	0.1295836E 03	0.1349615E 03		24.639		3	4.992
-0.1204426E 04	-0.3649149E C4				1.000000	2	6.656
-0.8198723E 03	0.4651516E C3	0.1191943E 04		26.692	0.310178	5	8.319
-0.126220AE 03	0.1549169E 03	0.1998272E 03		21.529		6	9.983
	0.2706296E 03	0. 2777588E 03		14.716	0.072281		
0.11334125 03	0.1230737E 03	0.1673122E 03		5.920	0.043539	8	13.311
-0.9577C45E 02	0.7774788E 02	0.1233560E 03		15.659	0.032101	ğ	14.975
	0.1270507E 03				0.033096		
ARMONIC ANALYSIS	MODEL CLAZOS S	HIP 33 T 010			TP 38 2 CHOR		
IVERALL CYCLIC LOA			41 12	., 1440	1r 30 2 CHUN	C DENU	314 67
ERO POSITION USED	1.15 (DEZU NINDAC	16200.00				
AJ -0.4783C495 02	ВЈ	ÇJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.33165608 03	0.2157171E C3	0.3956382E 03	33.041	33.041	0.176612		
0.39307475 03	-0.7557507E 03	0. 6472930E 03		148.440			
0.85317529 01	0.3833435E 02	0. 3927425E Q2		25.818	0.375873 0.017423	2	3. 328
-0.73486605 03	-0.21310545 C4	0.22542005 04			_ 1.000000	5	4.992
-0.40746755 03	0.59191415 03	0.7731947E 03		26.009			6.656
-0.1359877° 03	0.9229584E 02	0.1405415E 03		23.158	0.062347	6	8.319
-0.73645135 02	0.1287411E C3	0.1483168E 03			0.065796	7	9.983 11.647
0.16393245 03	-0.2535391E 02	0.1558814E 03		43.901	0.073588	á	13.311
-0.29203759 02							
-0.2420317: 02	0.5720784F 02	0.6423J79E 02	117.344	13.005	0.028494	Q	14.975

0.1405415E 03 138.950 23.158 0.062347 0.1483168E 03 119.771 17.110 0.065796 0.1558814E 03 351.208 43.901 0.073588 0.4423479E 02 117.044 13.005 0.028494 0.1264932E 03 61.526 6.153 0.056114

் இது நாள்ள அன்ற நாள்ள நாள்ள கொள்ள நாள்ள கான நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்ள நாள்

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Table III. (Continued)

TEST 14 N = 10

PAP=UNIC ANALYS OVF≥4LL CYCLIF					33	T	Clo	CTF	42	FLT	14-0	10	ŧ	1 FLAP	BEND	STA	43
LERG POSITION L	SED	5.51		4I\0401	LS	ΕC		-264	00.00								
AJ .		BJ			C	J		- 1	PHIJC		FS IJC		J/CJ	MAX	J	F	PËĞUENÇ
-C.9524678E (3																
-0.3033453F (4	0.50278285	04	٠٠.٥	523	340)E 0	• 10	oa.573	3	106.573	1		CCC	1		1.672
C.47CF531F (:4	-0.fCZ43CSE	04	2.0	3C3	750	E C	4 31	JU .404	i,	15C - 202	(76	651	2		3.344
0.14357C7F C	:4	-C. 57645 C4E	ns	C.1	739	773	BE C.	4 32	25.835	5	168.612	(. 102	571	3		5.017
J.2929660E 0	:3	C. E3CBEC4F	33	C . 6	914	421	F	3 (5.84	3	16.461	(6C1	4		6.68
-0.8285491E C	.2	C. 24875665	03	C . 2	522	302	E J	3 1	18.419	•	21.684	(-(27	: 34	5 '	-	6.361
-0.1666167F (3	-C. 58F7347F	02	C - 1	217	864	F C	3 20	26.90	3	24.618	Ċ	. (12	7 <i>e</i> e	ě		10.033
-3.2265647E (2	-0.230475CE	03	0.2	15	963	F 3	3 20	4.38	5	37.765	Č	-C24	216	7		11.70
3.6541629F C	_	0.532378EE					-	_	17.486		4.656				è		13.376
0.4532246E C		-C.3953215E		C.5					19.62		35.514		.Cez		c		15.050
-0.3010173E 0		-C.6172291E							1.588		19.159		.032		70		16.722

FARMONIC ANALYSIS MODEL CLERCS SHIP 33 T GLO CTR 42 FLT 14-0 TR 31 2 FLAP BEND STA 43 DVERALL CYCLIC LOAD = C-136654F C5

	ZERG POSITION USED	3.75	LCAC/IN LSEC	25930.00				
	· <u>-</u> EJ	8j		FHIJC	FS IJC	CUZCHIAX	j	FREGLENCY
	-0.163485EE (4							
	-0.1961672F C4	0.74398488	04 C.7694121E 04	104.771	104.771	C.981567	1	1.672
	0.2912646F C4	-C.7316613F	04 C.7838609E 04	291.028	145.514	1.000000	2	2.344
	0.09955606 C3	-C. 9784C43E	03 C.132936CE 04	312.6C8	104.203	C.165591	3	5.017
	0.1227718E C3	C-1494310F	03 C.1995631F 03	45.486	12.121	C-C25459	4	6.689
	-0.6577P43F C2	C.17929599	C3 C.1987495E 03	115.569	23.114	C.C25355 "	5	2.361
	-0.e01F262E C2	-C. 972399CE	C2 C.1143571E C3	238.246	39.7€	C.C145ES	É	1C.C33
	-0.6663E79F CZ	-0.10398845	C3 C.1234242E 03	237.322	33.903	C.C15746	7	11.766
	-0.5651545F C2	-C.2103522F	03 C.2183977E C3	254.440	" 31.EC5	C.(21662		13.378
	0.4411328E C3	-C.2359715E	C3 C.5CC2815E 03	331.057	36.673	0.663623	9	15.050
	-0.1825711F C3	-0.125266EE	02 0.18583998 03	190.080	19.008	C-C227CE	10	16.722
_								

HARMCHIC ANALYSIS MICEL CLERCS SHIP 33 T 010 CTR 42 FLT 14.0 TR 11 3 FLAP BENC STA 43 CVEO ALL CYCLIC LOAD # 0.127646F C5

ZEPO FOSITION	LSED	8.27	LC	AD/IN LSED	-	30400.00				
AJ		BJ		CJ		PHIJC	PS IJC	CJ/CJMAX		FREQUENCY
-0.11C4744E			_							1 473
-0.1E674CRE	C4	0.71357238	04	0.7376023E	04	104.665	104 -665	1.00000	ı.	1.672
0.3144457E	C4	-C. 6180141E	04	C.6934098E	04	296.967	146.484	C.94C(EE	Z	··· 3.344
0.64039976	C3	-C.7648154E	03	C.1136316E	04	317.696	165.899	0.154055	3 '	5-017
0.26143846	C3	0.37435255	C3	C.4565998E	03	55.074	13.768	C.(619C2	4	6.685
-C.1404142F	C3 ~	C.19266135	C3	~ (.2303939E	C3	~~127.550 <i>~</i> ~	25.51C	~ C.(:1236~	5	8.361
-0.165C536F	C3	-0.53431755	C 2	0.1926130E	03	196.105	32.684	C.C26113	6	10-033
-0.10232045	£3	-0.156C452F	03	0.2211e20E	03	242.442	24.£35	C.(29584	7	11.766
C.7504550E	C2	-0.21367C5E	0.3	C.2264662E	03	287.352	36.165	0.030103	e	13.376
0.67428618	C3	-C.3163285E	C3	C.9297546E	03	340.109	37.790	C.126C51	9	15.050
-0.1267124E	C3	-C. 2539234E	03	C.283560EE	03	243.570	24.357	C.C38444	10	16.722

Table III. (Continued)

ERO FESITION L	SEP C-25		.CAD/IA LSEC	-14150.00				
THU PUSITION (361 6.27		CAUTIN CSSC	-14150.00				
LA	ът в. ј		cy	PHIJC	FS IJC	CJ/CJMAX	· · · · J · ·	FRECLENC
-0.727C500E C	3					•		
C.6448621F C	2 0.E97C264E	03	C.8993413E 03	85.988	85.898	C.412652	1	1.67
C.10076545 C	4 -0.1922246E	C4	0.217920EE 04	297.542	148.771	1.000000	2	3.34
0.3046615E 0	3 -C. 387666CE	03	.C.4930554E 03	338.163	102.721	C.226255	3	5.01
C.3492155E C	2 C.100963CF	03	C.1067751E 03	70.910	17.727	C.C48557	4	6.60
" C.17084168 C	3 C. €242247F	CZ	C.13199845 C3	20.C71	4.014	C.(E3465 "	5	6.36
0.1737243F C	3 0.6994748E	02	0.10727736 03		3.655		é	10.03
0.12373346 0	3 C.154974CE	03	C.1792320E 03		7.34C	0.090965	7	11.70
0.773244PF C			C.1470507E 03		7.284	C.CE7475	£	13.37
-0.2511812E 0			0.30992875 03		16.016	0.142221	4	15.05
0.6486143E C			C.7359021E 02		2.819	0.023769	10	16.72

DALLACT CACTIC TONE) = C.611443F	C4		-	6 2 3		
ZERO POSITION USED	3.11	LCAD/IN LSEC	-20300.00			٠٠.,	
0.2006350E C4	BJ	cı	PHIJC	FS1JC	"CJ/CJHAX "	J.	FPECLENCY
	-0.1592534E 03	C.1061914E	04 351.374	351.374	C.328111	·1	1.672
0.24C3713E C4	C.11C7661E 04	C.2646549E	04 24.741	12.370	C.E17841	2	3.344
-0.25163526 C3	-0.1746454E 03	C-3927964E	03 206.399	68.80C	C.12127E	3	5.C17
G.1308877E C2	0.3236116E 04	C.3236143E	04 89768	22.442	1.00000	4	,6-689
-0.2144C78F"(3	C.7632183F 03	C.7927627E	C3 105.691	21.138	C.24457.1		P.361
0.18255C6E C3	-C.17CZ644E 03	0.2496291E	03 316.994	52.832	C.C77138	6	10.033
-0.2791C50E C3	-0.2324167E 02	C.28CC7CSE	03 184.760	26.394	0.086545	7	11.706
-0.9639783E CZ	0.1417C65E 02	C. 5743379E	02 171.637	21.455	C.C301CE .	8	13.378
-0.1035768E C3	0.1279553E 02	C.1347616E	03 172.982	15.220	0.032272	٠ ۶	15.050
0.4531268E C2	0.2322249E 03	C.2366044E	03 78.959	7.896	0.072113	10	16.722

HARMONIC ANALYSIS MODEL CLETCS SHIP 33 T 010 CTR 42 FLT 14.0 TR 3E 2 CHORD BEND STA 65 CVERALL CYCLIC LOAD = 0.37°605E C4

ZEPO POSITION	LSEO	1.15	LCAD/IN LSED	16200.00				
AJ -0.2397910E	<u>.</u>	9.1	ĊĴ	PHIJC	FS IJC	CJ/CJMAX		FREQUENCY
0.4172252E		-0.5962634E 02	C.4267275E 0	3 346.700	346.700	0.223260	1	1.672
0.1347780E		0. 61 8C653E 03			12.318	C.7722C5 "	2	3.344
-0.17155E0E	C3	-C.584151CF 02	2 0.19778398 0	3 209.842	69.547	0.103005	3	5.017
0.1364866F	C3	C. 1915272E 04	C.1720129E 0	4 85.924	21.481	1.00000	4 .	6.689
-0.1771923F	C3	0.49381CEF 03	C.5152461E 0	3-110.115	22.C23	C.266335	5	6.361
0.10133596	C3	-0.13466895 03	C.1725606E 0	3 305.963	50.594	C.CESE65	6	10.C33
-0.2C57CPCE	C3	-0.67557985 02	C.2165176E 0	3 198.181	26.312	C.112762	7	11.706
-0:66P4217E	ČŽ .	0.6450C53E 01	C.6715321E 0	2 174.488	21.611	0.034973	. 6	13.378
-0.1602411E		C. 6123572E 02	C. 171543CE 0	3 150.C86	17.676	0.(89339	\$	15.050
-0.5502782F		0.2714CC4E 03		3 101.462	10.146	C.144221	10	16.722

Table III. (Continued)

TEST	15	N	•	1	•																					
LABUC		40.4					670		Shir				010			43		15		7P /			AD (ENC	CTA	43
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																										4.85
																								-		7.28
																										2.49
_																										9.70
																								-		
																			_					_		10.52
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FARMO	k tr				nnei	_ C1	 £704	- ···	 S L T D	• •	12	· · · · · ·	. .		 C	43 (FI T	15		TR 21		 F1	 2 QA	FNC	 Sta	43
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Z ERO	PC S 1	TIC	N (LSED		3.	. 75		LCAD	4I\	LS	EC		25	900.	.00									•	
-0-			F	C4		···· E	31				С	J	• • • •		PHI	JC "		PSI	JC	, C1V	CJ	XA	• • • •	J	F	RECUENC
		-			0.5	342	2 C E 3E	03	i	C-1	406	349	E 04		157.	675		157.	675	C . 2	Ç 2 6	EE		1		1-21
												-	-											2		2.42
					- C - 1	1632	2656	04		C.4	931	668	E 04								Cac	CC		3		3.64
																								4		4.85
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										•	33	T (010	CT	R	43	FLT	15	-0	TR 11	1 3	FL.	AP E	END	STA	43
ZEPO	FCSI	t IC	N I	LSED		8.	. 27		L C AD	411	ιs	ED		-30	٠٥٥.	00								٠.		
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	-0000000000000	CVER ALL C ZEFO PCS1 -0.2596 -0.1534 0.1863 0.5126 0.6391 -0.1645 -0.7670 0.6672 -0.3205 -0.3205 -0.3205 -0.1200 0.2172 0.6153 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202 -0.1202	###CNIC ANA CVERALL CYCL ZEFO PCSITIC -0.255406 -0.153474 0.1883637 0.5126559 0.6391560 0.1653105 -0.1645676 -0.7670566 0.7672153 -0.1210394 -0.2085347 ####CNIC ANA OVERALL CYCL ZERO PCSITIC ZERO PCSITIC -0.1306538 0.2172259 0.451566 0.3942417 -0.475256 -0.1313023 -0.5520652 -0.7C71852 -0.1C22121 #####CNIC ANA OVERALL CYCL ZEPO PCSITIC #####CNIC ANA OVERALL CYCL ZEPO PCSITIC -0.1150638 -0.5510644 0.1252166	### CNIC ANALY CVERALL CYCLIC ZEFO PCSITION -0.255406E -0.1534744F 0.1883637E 0.5126559F 0.639156CE 0.16531C5F -0.1645676F -0.7672153F -0.1210394F -0.2085347F #### CNIC ANALY OVERALL CYCLIC ZERO PCSITION -0.238189E 0.4172259E 0.451566E 0.3942417E -0.1300638E 0.2172259E 0.475266F -0.1313C36E -0.7C71852E -0.1C22121E #### CNIC ANALY OVERALL CYCLIC ZERO PCSITION AUTHORITY #### CNIC ANALY OVERALL CYCLIC #### CNIC ANALY OVERALL CYCLIC ZEPO PCSITION -0.3155C43F -0.315C43F	###CNIC ANALYSIS M CVERALL CYCLIC LCAF ZEFO PCSITION LSED -0.2596406E C4 -0.1534744F C4 0.1983637E C4 0.5126559F C4 0.63919ECE C3 -0.1645676F C3 -0.768C566F C2 -0.768C566F C2 -0.1210394F C2 -0.2085347F 02 ####CNIC ANALYSIS M OVERALL CYCLIC LOAD ZERO PCSITION USED AJ -0.238199E C4 0.417259E C4 0.417259E C4 0.417259E C4 0.475266F C2 -0.1300638E C4 0.3942417F C3 -0.475266F C2 -0.171212E C3 -0.143038E C4 0.3942417E C3 -0.143038E C4 0.3942417E C3 -0.143038E C4 0.3942417E C3 -0.175266F C2 -0.171212E C3 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C2 -0.175266F C3 -0.175266F C4 -0.175266F C4 -0.175266F C4	###CNIC ANALYSIS MIDE CVER ALL CYCLIC LCAF = ZEPO PCSITION LSED -0.254406E C4 -0.1534144F C4	###CNIC ANALYSIS MINEEL CI CVERALL CYCLIC LCAF = C. ZEFO PCSITION USED	###CNIC ANALYSIS MITTEL CLETC CVERALL CYCLIC LCAF = C.7F65 ZEFO PCSITION LSED	###CNIC ANALYSIS MINEEL CLETCS CVERALL CYCLIC LCAF = G.776592E ZEFO PCSITION USED	###CNIC ANALYSIS MUCEL CLETCS SHIP CVERALL CYCLIC LCAF = C.7F6592E C4 ZEFO PCSITION USED	### CNIC ### ALLYSIS MITTEL CLETCS SHIP CVER ALL CYCLIC LCAF = G.7F6592E C4 ZEFO PCSITION LSED	####CNIC #MALYSIS MIDEL CLETCS SHIP 33 ZEFO PCSITION LSED \$.51 LCAD/IN LS AJ BJ C. -0.2596406E C4 -0.1534144F C4	###UNIC AMALYSIS MUMEL CLETCS SHIP 33 T CVERALL CYCLIC LCAF = G.7Fe592E C4 ZEFO PCSITION USED 9.51 LCAD/IN USEC -0.259640&E C4 -0.1534744F C4 0.142654E 04 C.2095377 0.1863637F C4 0.1262F44E 04 C.2095377 0.1863637F C4 0.1262F44E 04 C.5294625 0.63919ECF C3 C.52F5444F 03 C.8356254 0.1531CSF C3 0.37482CF 03 C.42626E -0.1645616F C3 C.77C1C15E 03 C.1020746 -0.1645616F C3 C.77C1C15E 03 C.1020746 -0.76F0566F C2 0.1790CC3E C3 C.1047825 0.6672153F C1 0.1C17C56E 03 C.1020746 -0.2210394F C2 -0.1676742E 02 C.3622290 -0.2085347F 02 -0.2119C68E 02 C.3742403 **PARMONIC ANALYSIS MIDEL CLE7CS SHIP 33 T OVER ALL CYCLIC LOAD = C.663174E C4 ZERO PCSITION USED 3.75 LCAD/IN USEC -0.130C538E C4 0.5342C63E 03 C.1406349 -0.2172259E C4 0.6782451E 03 0.2275081 0.6515566E C4 -C.1632655E 04 C.4931668 0.2942417E C3 0.53691E7E 03 C.36601C7 -0.1772566F C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.172725E C2 0.2629142E 03 C.36601C7 -0.1727212E C3 C.114324CE 03 0.17E5343 -0.11430C3E C3 0.62596714E 02 C.1267504 -0.77C71E75E C2 C.3554C51E 02 C.1267504 -0.77C71E75E C2 C.3554C51E 02 C.1267504 -0.77C71E75E C2 C.55890144 **MARMONIC ANALYSIS MCCEL CLE7C5 SHIP 33 T OVER ALL CYCLIC LOAD = C.764246F 04 ZEPO PCSITION USED 8.27 LCAD/IA USED **APAMONIC ANALYSIS MCCEL CLE7C5 SHIP 33 T OVER ALL CYCLIC LOAF = C.764246F 04 ZEPO PCSITION USED 8.27 LCAD/IA USED **APAMONIC ANALYSIS MCCEL CLE7C5 SHIP 33 T OVER ALL CYCLIC LOAF = C.764246F 04 ZEPO PCSITION USED 8.27 LCAD/IA USED **APAMONIC ANALYSIS MCCEL CLE7C5 SHIP 33 T OVER ALL CYCLIC LOAF = C.764246F 04 ZEPO PCSITION USED 8.27 LCAD/IA USED **APAMONIC ANALYSIS MCCEL CLE7C5 SHIP 33 T OVER ALL CYCLIC LOAF = C.764246F 04 ZEPO PCSITION USED 8.27 LCAD/IA USED	###UNIC ####################################	PARMICNIC ANALYSIS MITTEL CLETCS SHIP 33 T 010 CT	PARMICNIC ANALYSIS MITTEL CLETCS SHIP 33 T 010 CTR CVERALL CYCLIC LCAT = C.776592E C4 C4 C4 C4 C4 C4 C4 C	PAPMICNIC ANALYSIS MINISTED CLETCS SHIP 33 T 010 CTR 43 CVERALL CYCLIC LCAT = G.7F6592E C4 ZEFO PCSITION LSED S.51	###CNIC #MALVSIS MICEL CLETCS SPIP 33 T 010 CTR 43 FLT CVERALL CYCLIC LCAF = C.7FE592E C4 ZEFO PCSITION LSED 5.51 LCAD/IN LSEC -26420.00 -0.2594406E C4 -0.15341445 C4 0.1426554E 04 C.2095377E 04 137.092 0.1893437E C4 C.8304551E 03 C.2C59578E 04 23.752 0.5126559F C4 -0.1286744E 04 C.5294625E 04 345.951 0.639158CE C3 C.5255444F 03 C.8358254E 03 40.115 0.16931C5F C3 0.937822CE 03 C.42625E 04 345.951 0.016931C5F C3 0.937822CE 03 C.42625E 04 345.951 0.016931C5F C3 0.937822CE 03 C.42625E 04 345.951 0.016931C5F C3 0.937822CE 03 C.42625E 03 40.115 0.16931C5F C3 0.937822CE 03 C.42625E 03 154.920 -0.160566F C3 C.77C1515E 02 C.1816CPPF 03 154.920 -0.760566F C3 C.77C1515E 02 C.1816CPPF 03 154.920 -0.760566F C3 C.77C1515E 02 C.1047825E 03 113.223 0.6672153F C1 0.1C1755E 03 C.1020746E 03 85.126 -0.7210394F C2 -0.1676742E 02 C.3623290E 02 207.619 -0.2065347F 02 -0.2118C6EE 02 C.3742403E 02 214.469 ###################################	FAPHUNIC ANALYSIS MICEL CLETCS SHIP 33 T OLO CTR 43 FLT 15	###UNIC ANALYSIS MHEEL CLETCS SHIP 33 T 010 CTR 43 FLT 15.0 CVFR ALL CYCLIC LCAT = C.7FE592E C4 ZEFO PCSITION LSED	###WAIT, ###LYSIS MITEL CLETCS SHIP 33 T 010 CTR 43 FLT 15.0 TR COVERALL CYCLIC LCAF = G.7FE59ZE C4 ### CASH CYCLIC LCAF = G.7FE59ZE C4 ### CASH CYCLIC LCAF = G.7FE59ZE C4 ### CASH CYCLIC LCAF = G.7FE59ZE C4 ### CASH CYCLIC LCAF = G.7FE59ZE C4 ### CASH CYCLIC LCAF = G.7FE59ZE C4 ### CASH CYCLIC LCAF = G.124654E 04 C.295377E 04 137.092 137.092 C. ### CASH CYCLIC LCAF = G.124654E 04 C.295377E 04 137.092 137.092 C. ### CASH CYCLIC LCAF = G.124674E 04 C.295377E 04 137.092 137.092 C. ### CASH CYCLIC LCAF = G.124674E 04 C.295727E 04 23.792 11.556 C. ### O.1675165 C3 0.37482CC 03 C.42626E 03 62.725 12.545 C. ### CASH CYCLIC LOAD = C.77C1715E 02 C.1161678F 03 154.920 25.620 C. ### O.120304F 02 O.11700CC2E 03 C.104782E 03 113.223 16.175 C. ### O.120304F 02 O.11700CC2E 03 C.104782E 03 113.223 16.175 C. ### O.120304F 02 O.11700CC2E 03 C.104782E 03 207.617 23.669 C. ### O.120304F 02 O.2118CEE 02 C.3742403E 02 207.617 23.669 C. ### O.120304F 02 O.2118CEE 02 C.3742403E 02 214.469 21.447 C. ### DVFRALL CYCLIC LOAD = C.663174E C4 ### O.1306738E 04 0.524208E 03 C.1406349E 04 157.675 157.675 C. ### O.1306738E 04 0.6782451E 03 C.2275881E 04 17.340 8.67C C. ### O.1306738E 04 0.6782451E 03 C.2275881E 04 17.340 8.67C C. ### O.1306738E 04 0.6782451E 03 C.2275881E 04 17.340 8.67C C. ### O.1306738E 02 0.628746C 04 C.401668E 04 343.121 113.274 1. ### O.1306738E 03 0.528781E 03 C.32606107E 03 97.455 15.465 C. ### O.1306738E 03 0.6287814E 03 C.3660107E 03 97.455 15.465 C. ### O.1306738E 03 0.6287814E 03 C.3660107E 03 97.455 15.465 C. ### O.1306738E 03 0.6287814E 03 C.3764318 03 15.1.183 21.592 C. ### O.151566E 04 C.1622651E 03 C.3660107E 03 97.455 15.465 C. ### O.151566E 04 C.1622651E 03 C.3660107E 03 97.455 15.465 C. ### O.151566F 05 C.3656714E 02 C.3656714E 03 15.1.183 21.592 C. ### O.1515067 C2 0.3556714E 02 C.3660107E 03 15.1.183 21.592 C. ### O.1515067 C2 0.3556714E 02 C.3660107E 03 15.1.183 21.592 C. ### O.1515067 C3 C.3556714E 02 C.3660107E 03 15.1.183 21.592 C. ### O.1515067 C4 0.5556714E 02 C.3660	HAPMENIC ANALYSIS MICEL CLETCS SHIP 33 T 010 CTR 43 FLT 15.0 TR 6 12 CYPR ALL CYCLIC LCAF = G.7FE592E C4	###UNIC #### CYCLIC LCAT = C.7F6592E C4 ZEPO PCSITIUN USED	Happing analysis micel cleros Ship 33 T 010 CTR 43 FLT 15.0 TR 6 1 FLAP 0	APPHCNIC ANALYSIS MITTEL CLE7CS SHIP 33 T 010 CTR 43 FLT 15.0 TR 6 1 FLAP BENC CYPRALL CYCLIC LCAT	APPHCNIC ANALYSIS MITTEL CLETCS SHIP 33 T 010 CTR 43 FLT 15.0 TR 6 1 FLAP BENC STA

Table III. (Continued)

TEST 15 N = 1 (CONTINUED)

HAPMONIC ANALYSIS DVEPALL CYCLIC LC		SF 1 P	33 1	010	CTR	43 FL	7 15.0	TR 41 2 FL/	AP BEND S	STA 110
ZEFO FCSITION LSF	D C.35	LCAD	VIN LSEC	:	-14150	-00	,			•
	ВЈ		cj		PH)	JC	PS IJC	XA4ED/ED	J .	FRECLENCY
-0.1C97160E C4										1 714
C.560777CF (2	-C. (338691E (C.636344			.C56	275.056	0.366731		1.214
0.P181759E 03	0.442552PE ()3 (0.930218	SE 03	29.	.411	14.206	0.565325	2	2.427
0.1524249E C4	-0.6158C47E)3	C.164544	6E 04	337	.072	112.624	1.00000	3	-3.641
0.79818135 (2	C.3C22C17E C	3	C.312564	7E C3	75	205	13.601	C.185957	4.	4.854
0-555E041E C2	0.1149213E		C.152332			577	5.796	C.C9257E.	5	.6.068
-0.6C2E223E (2	C. 20515965 (C.£36777			205	26.667	C.C28699	6	7.282
0.80282238 02	C. 7369575E	_	C.111319			457	5.922	C.C67653	ž	8.495
			0.218641		_	762	7.345		ه .	9.709
0.1133853E C3	0.1869436E								ŕ	10.522
U.4449265F Cl	C.1189646E (C.112047			. 658	9.762			
-0.5966CC3E C2	0.15656366 ()3 (C.2C7C66	3E 03	106.	457	1C . 6 46	C.125E42	10	12.136

HARMONIC ANALYSIS MODEL CLETCS SHIP 33 T 010 CTR 43 FLT 15.0 TR 24 2 CHORD BEND STA 21.

CVERALL CYCLIC LOAD = C.285EZCE C4

and the second second

ZERO POSITION LSE	D 3.11	LCAD/IR USED	-20300.00			* .
Transfer (A)	BJ		PHIJC	PSIJC	CUZCUMAX	J FRECLENCY
0.1587565E C4		•				
0.5776140E C3	-0.76745C6F)2 C.5826899E	03 352.432	352.432	C.544658	1 ~ 1.214
-0.65059C3E C3	-0.1445547E (3 C.6664551E	03 192.531	56.265	. C.622956	2 2.427
-0.7286853E C3	C.117CEZEE (3 C.738C315E	03 . 170.872	56.557	C.689861	3 3.641
0.2428C44E 03	-0.2174347E	2 C.2437760E	03 354.883	£8.721	C.227F65	4 4.854
0.29007256 (2	-0.1069433E	0.1069826E	04 271-554	54.311	1.00000	5 6.068
-0.9191319F 02	0.2764399F (3 C.2913193E	03 108.391	10.065	C.2723C	6 7.282
0.4615545E C2	0.725779CE (2 C.8603233E	02 57.523	6.218	C.CEC417	7 -8.495
-0.3541333F C3	0.8360464E (2 0.36396928	03 166.717	20.E4C	C.340115	e 9.709
0.6131619E C2	0. E621937E	0.6192079E	02 8.013	C-890	0.057875	9 10.922
0.6526550E C1	0.1034120E (2 C.1946786E	02 70.412	7.041	0.618197	10 12.136

HARMONIC ANALYSIS MODEL CLERCS SEIP 33 T GLO GTR 43 FLT 15.0 TR 28 2 CHORC BEND STA 69 OVERALL CYCLIC LOAD = 0.188546E C4

ZERD POSITION	L SE D	1.15	LEA	ID/IN LSED	16200.00				
AJ		BJ	····	CJ	PHIJC	PS IJC	CJ/CJMAX		FREQUENCY
-0.71244 <i>2</i> 5E	CZ								. '
0.2420847E	C3	C.22C7294E	02	C.243C885E 0	3 5.210	5.210	C.39C(2E	1	1.214
-0.2118158E	03	-0.1381568E	03	0.34105548 0	3 203.896	101.548	C.!4E(68 ^^	2	~ 2.427 [.]
-0.47451F1F	(3	C.12345C6E	03	C.4903135E C	3 165.417	55.139	C.7E7522	3	3.641
0.1092325E	C 3	-0.776716CE	02	C.2138375E O	3 339.701	84.675	C.343632	4	4.854
-0.3255043F	C 2	-0.6214353E	03	0.6222A71E 0	3 267.001	.3.400	1.00000	5	€.068
-0.3632651F	C 2	0.18878838	03	C.1922515E 0	3 100.892	16.815	C.208943	6	7.282
0.17058558	C2	0.63832C3E	02	C.6629325E 0	2 74.369	1C.624	.0.106516	7	6.495
-0.2050509F	C3	0.6525597E	02	0.3021897E 0	3 ~ 167.524	20.541	C-4E5611	. 6	5.709
0.30630°2E	C2.	-0.2352786E	02	0.38624C1E 0	2 322.472	35.830	C.CE2(EE	9	10.922
0.52323218	CS:	C.1684C35E	02	C.5591925E 0	2 17.527	1.753	C.C85861	10	12.136

Table III. (Continued)

TEST 15 N	- 2								•									
HAPHONIC ANA	LYSIS	MODEL CI	L 8705	SH	IP-	33 1	r c10	o c	TR	44	FLT	15.0	TR	£	1 FLA	P BEND	STA	43
OVERALL CYCL																		
ERO POSTTION	LSEC				41 / D4	LSE	:	-2	6430	-00								
AJ		·	BJ		• •	CJ			PH	IJC	· · · ·	FS IJC	_ cj	/CJ	KAN			FPEQLENCŸ
-0.1816864		0 300	. 1	04		24491		n.	126	201	1	135.281	1		ccc			1.206
-0.3017646		0.29 F				24681 CC 864	75 (- 20	214	. 200		150.10C			448	2		1.206
0.2171538		-G. 289				4027				.837		100.612			287	3		3.619
0.2155054		C.143				5668				. 5E4		5.704		141	613			4.825
0.21556.4		C. EOE				1404				98		E.396	č.	624	£13 £53			6.031
-0.13227:1		-0.124				32 35				.374		30.656	Ċ.	(21	284	Ã		7.238
0.1841146		-0.212				1325				.953		35.275			021	ž		8.444
-0.5673474		-C.6C7	SCACE	02		4507				.571		28.246			£75			9.650
-0.2711:16		-0.167				70112				.828		28.9A1			Č56			10-056
0.1016456		-0.101				4392						31.493	Č.	(33	8 S C			12.Ce3
0.1016456				~		7374.	,,,,,		3.4		٠					-		
															•			
FARMONIC ANA	LYSTS IC LO	MUDET C	L E 7 C 5	SH	ΙP	33		0 0	TR	44	FLT	15.0	TR 3	1	2 FLA	P BEND	STA	43 ,
ZERO POSTTIDI		_	.75		AI/GA													
			B J			C?			PH	Ï JC		PS IJC	C1	/CJ	₽AŻ ¯¯			FREGLENCY
-0.2126827		0.235	23666	04		E 274		٠,										1 204
0.1688127		-0.189				5276° 53700				-169		138.169			CCC	1		1.206
0.1818257		-0.235								.711		155.656			151	_		2.413
0.56798671						97436				-684		102.561		£43		3		3.619
		0.305				1155				.122		15.780			317	•		4.825
-0.9281602		0.134				5754				.714		24.343			650	5		6.C31
-0.7155760		0.765				20092				.371		28.578			413	6		7-238
-0.47248681		-0.511				C441				.736		29.677			155	7		8.444
-0.1192535		-0.589				0191				• 573		32.222			CE3	8		5-650
-0.2067635		-0.207				0821				- 301		29.367			C22	5		10.856
0.1120935	- (3	-0.179	OZEEE	03	0.2	1122) 5 E	03	302	.052	<u>-</u>	30.205		(55	€.7 €	10		12.C63
ARMONTO ANAL						33 1						15.0	TR J	1	3 FLA	P BEND	STA	43
EPO PCSITIC	LŞEC	e.	. 27	LC	4D/IN	LSE	;	-3	0400	.00								
-0.201C4726	: [4		3.			CJ			РН	I JC		FSIJC	CJ	/CJ	XAX	j		FRECUENCY
-0.20940646		0.183	77 3E	04	C . 2	78282	05 0	14	120	.807		139.807	•	612	P12	1		1.206
0.17380736		-C.3874				78072				•60 r •434		173.717			115	- 2		
0.27841696		-C.199				42369				.411		108.137				3		2.413 3.619
0.21066678		C.3(7)				72578				.611		13.903		CCC(4		4.825
-0.39276298		0.2374				40478		, <u>, </u>	99	150		19.632			:35			
-0.14932006		0.6087				51251		11	167	•139 •821		26.303		C 47:		. 5		7.238
		-0.3549				57443				.943		29.766		C22		ž		1.238 E.444
-0.44513476																		
-0.66913578																		
-0.66913576 -0.10889206 -0.43324636	C3	-0.5611 -0.1317	1334F	02	C.l.	22499 39719	7E'0	3 🖺	207	•263 •801		25.9C8 27.578	0.	C35'	7 e C	j .		5.650 10.856

Table III. (Continued)

- -																					
TEST 1	2 N	-	2	(con	TINU	ED)		•													
HARMEN									33	1	C10	CTK	44	FLT	15.0	18 4	1 2	FLAP	PEND	STA	,118 °°;
GALL	L CYC	LIC	LOA	C =	C-16	P 6 6 4	7E C	4													•
Z EFO P	05111	ON	LSED		0.3	3 \$	Ł	(AD/	IN L	SEC		-1419	3.0C								
-0.0	AJ	۰			В.	j				C J			HIJC		FSIJC	CJ	1674	AX	J	F	RECLENCY
	1069C 65595			-0.	1862	47#F	03	C	-224	3=55	F 03	. 2	15.04	ı	215.041	٤.	3255	5.0	1		1.206
	31652				3232					8992			36.16		166.081		€C 2 €		2		2.413
	22316				E494			_		3015			1.61		1CC .53C		ccci		3		3.619
	50028				19853					6366			4.68		26.021	۲.	2044	46	4		4.825
	PPISE				10111					63 97			8.24	3 "	5.650	C.	C 2 1 4	43	5		6.031
	3 22 3 2				10056					4122			2.27		27.C46	Č.	(269	41	É		7.238
	02503				1607				-	6649			7.10		49.587		(723		7		P.444
	54574				15992					4817			7.96		7.245		1661		6	٠	9.650
	e3772				9540					8378			3.C8		7.565		1032	2C	9		10.056
-0.10	C3774	16	03	0.	26217	CZE	03	0	. 281	9614	€ 03	11	1.55		11.160	C .	2830	0 E	10		12.063
						· · · · · · · ·									- 4.4.4		T - M - 1120				
HARMON! OVERALL									33	T	010	CTR	44	FLT	15.0	TR 24	4 2	CHGR	C BEND		21.
ZERO PO	CSITI	2N	LSED		3.1	. 1	ι	CAD/				-2030	0.00							•	
	AJ				8 J					C.J		P	HIJC		PS IJC	CJ.	/CJ H/	A X	j	·····F	PECLENCY
	79547							_				•		_						-	
	3155C				19879					4822					342.537		4109	45 39	1		1.206
	10765				16675					2875			2-64		76.224		4 L / C	39	2		2.413
	1585 <i>6</i> (52594)				3363 <i>2</i> 61603					E364			9.22		47.C12		33176 2607		3		3.619 4.825
										63¢0									5		6.031
	5722C				15644					2094			0.62		56.125 23.250		00001		-		7.238
	17357				E3471					5295			₹.50				(751)			1:	
	531042 496151				10214 14613					7056 1084			6.98		6.712		1999		?	. <u></u>	£.444 5.650
													0.59		13.824	0.1	[\$ 6 F]		ç		
	250526 90615				51026 16136					0631			0.25		37.534 4.C25		[E37 1545]		10		10.856 12.063
0.19	0613	<u> </u>	-3		16136	165	<u> </u>		249	763£	E U3	`	0.23		4.623		1545.	= 1			
													······································								
, , , , , , , , , , , , , , , , , , , 												CIR-			15.0				BENU		
			SED		1.1	5	L	CAD/I	k L:			1620					rar e i de		<u></u>		ne oli ette til
OVERALL		JP4 1										P	HIJC		FSIJC	(1)	CJWA	×	J	F	RECUENCY"
OVERALL ZERO PC -0.13	AJ !62194	E			ВJ				-	:J			-								
OVERALL ZERO PC -0.12 0.36	AJ 62194 21401	E	C3	-0.7	70935	0 6E			3622	20951		35	8.876		358.878		1950		. 1		1.206
OVERALL ZERO PC -0.13 0.36 -0.16	AJ !62194 !21401	E	03 03	0. 8	70935 4556	06E 37E	02	C.	3622 1876	20951 58 7 11	E 03	35 15	8.876 3.223	3	76.612	C.1	15552	26	2		2.413
-0.13 0.36 -0.16	AJ 262194 21401 35610	E	03 03 03	0. E	70935 4556 29501	06E 37E 53E	02 03	C.	3622 1876 3583	20951 58711 36961	E 03 E 03	35 15 12	8.876 3.223 4.591	3 L	76.612 41.530	C - 1	15552 20057	26 [*]	3		2.413 3.619
-0.13 0.36 -0.16 -0.20 -0.20	AJ !62194 !21401 :75610 !34512	E	03 03 03 03	0.E C.2 C.1	70935 4556 29501 17002	06E 37E 53E 60F	02 03 01	C.	3622 1876 3583	20951 58711 36961	E 03 E 03 E 03	35 15 12 17	8.876 3.223 4.591 9.587	3	76.612 41.530 44.857	0 - 1 0 - 3 C - 2	15552 20057 2004	26 14 48	2		2.413 3.619 4.825
-0.13 0.36 -0.16 -0.20 -0.23	AJ 21401 21401 34512 159577	E	03 03 03 03 03	0.8 C.2 C.1	70935 4556 29501 17002	06E 37E 53E 60F 46E	02 03 01 03	C.	3622 1876 3583 2359	20951 58711 36961 76381	E 03 E 03 E 03 E 03	35 15 12 17 27	8.876 3.223 4.591 9.587	3 L ?	76.612 41.530 44.857 55.286	0.1 0.3 0.3	15552 20057 2006 2006	26 14 4 6	3 4		2.413 3.619 4.825 6.031
-0.13 0.36 -0.16 -0.20 -0.23	AJ 21401 21401 34512 159571 153762	E	C3 C3 C3 C3	0.E C.2 C.1 -0.9	70935 4556 29501 17002 3474 28823	06E 37E 53E 60F 46E 36E	02 03 01 03 02	C. C.	3622 1876 3583 2359 5406	2095(5871) 5696(7638) 5658(E 03 E 03 E 03 E 03 E 02	35 15 12 17 27	8.876 3.223 4.591 9.587 6.432) 	76.612 41.530 44.857 55.286 20.777	0.1 0.3 0.2 1.0	155 ± 2 16C 5 1 15C 6 C 15C C 137 2 5	26 14 48 C	3		2.413 3.619 4.825 6.C31 7.236
-0.13 0.36 -0.16 -0.20 -0.20 -0.10 -0.19	AJ 262194 21401 34512 159577 153762 192928	E	C3 C3 C3 C3 C2 C2	0. E C. 2 C. 1 - C. 9 C. 2	70935 4556 29501 17002 3474 28823	06E 37E 53E 60F 46E 36E 43E	02 03 01 03 02 02	C. C.	3622 1876 3583 2359 5406 3504	20951 3871 36961 36381 36581	E 03 E 03 E 03 E 03 E 02 E 03	35 15 12 17 27 12	8.876 3.223 4.591 9.587 6.432 4.661 2.245	3 ! ! !	76.612 41.530 44.857 55.286 20.777 4.606	0.1 0.3 0.2 1.0 0.1	155 5 2 180 5 1 150 8 4 150 6 6 137 2 5	26 14 4 5 5	3 4		2.413 3.619 4.825 6.031 7.238 6.444
-0.12 0.36 -0.16 -0.20 -0.23 0.10 -0.19 0.84 -0.54	AJ 262194 21401 34512 159577 153762 192928 165864	E	03 03 03 03 02 02	0.6 C.2 C.1 -0.9 C.2 O.5	70935 4556 29501 17002 3474 28823 3404	06E 37E 53E 60F 46E 36E 63E	02 03 01 03 02 02 02	0. 0. 0. 0.	3624 1876 3583 2359 5406 3504 1006	2095(5871) 3696(3638) 5658(5228) 5951(5351)	E 03 E 03 E 03 E 03 E 02 E 03 E 02	35 15 12 17 27 12 3	8.876 3.223 4.591 9.587 6.432 4.661 2.245 7.639	3 1 7 1 5	76.612 41.530 44.857 55.286 20.777 4.606 15.555	0.1 0.3 0.4 1.0 0.1	155 5 2 20 5 5 20 6 4 20 6 4 6 25 4 6 8	26 14 48 10 10 11	2 3 4 5 6 7		2.413 3.619 4.825 6.031 7.238 6.444 9.650
-0.12 0.36 -0.16 -0.20 -0.23 0.10 -0.19 0.84	AJ 262194 21401 34512 159577 153762 192928	E	03 03 03 03 02 02 02 02	0. E C. 2 C. 1 C. 2 C. 2 C. 7	70935 4556 29501 17002 3474 28823	06E 37E 52E 60F 46E 36E 63E 61E	02 03 01 03 02 02 02 02		3622 1876 3583 2359 5406 3504 1006 8906	20951 3871 36961 36381 36581	E 03 E 03 E 03 E 03 E 02 E 02 E 02	35 15 12 17 27 12 3 12 31	8.876 3.223 4.591 9.587 6.432 4.661 2.245	3 1 7 2 1 5	76.612 41.530 44.857 55.286 20.777 4.606	0.1 0.3 1.0 0.1 0.1	155 5 2 180 5 1 150 8 4 150 6 6 137 2 5	26 14 48 12 13 15	3 4		2.413 3.619 4.825 6.031 7.238 6.444

Table III. (Continued)

															_	
TEST 15	N = 3															
																
		NODEL CL8705		33 T	010	CTR	45	FLT	15.3	TR	6 1	FLAP	BEND	ST4 43		
OV ERALL C	ACT IC F	JAD = 0.954563	3E 04													
7 EPO POS 1	T ffin HS f	D 9.51	1.540	/IN LISED		-34400										
A	J	- is		LJ		PH	II JC		SLIZ	c	J/CJN	ĂX		FAE	TUE VEY	
-0.1201	853E 04															
		0.33936808													1.199	
	892E 04 647E 03		04	0.5964773	E 04	220			1.697	ŗ	-0000	00	2		2.398	
	921E 03		03	0.1828566	E 03	77	. 5 10	,	0.731	0	1.3007	22 22	3		3.771	
	827E 02		03	0-3826689	F 03	. 23	1.215	. :	8.543	. 0	-0641	55	·- ··· ₹	-	5.005	
		0.9333350E	02	0.2010023		15.2	332		5.389	ō	.0336	9A	6		7.194	
-0.1460	904E 03	0.9333350E 0.4307159E	ÖZ	0.1523074		153	.573		25.389 23.358	ō			ž			
-0.4452	582E 02	0.2463007E	92	0.5088406	E 02				8.801		-0085				9.592	
		-0.5538844E		0.1357106			.038		2.575		-0227		9		10.791	
0.4562	366E 02	O.1044154E	_03	0.1139478	E_03	293	-603	2	9.350	0	.0191	03	10_		1.4.990	
,																
HARMONIC	ANA: VST	400EL CL8705	Cut D	22 · T	010	CTR	45	E1 T	15 3	T D	21 2	E1 40		CTA 43		
OV ERALL C	YOL IC LI	AD = 0.80786	SF DA	33 1	010	CIR	45	rti	19.3	' '	J. 2	FLAF	DENU	314 43		
				•		•								-		
ZERO POSI	TION USE	D 3.75	LOAD	/IN USED		25930	-00									
A	J	BJ BJ		ca		PH	I JC	P	SIJC	C	J/CJM	AX		FKE.	MENCY	
-0.1520	324E 04															
-0.3653	889E 04	0.2636750E	04	0.4505922	E 04	144	. 185	14	4.185	0	.9636	26		·	_1.199_	
0.1820	734E 04	-0.4306969E -0.1807731E	04	0.4676008	E 04	292	.916	14	6.458	1	-0000	00	2		2.398	
0.3125	1/05 03	-0.18077316	04	0.1834545	E 04	219	-808	9	3.269	0	- 39 2 3	32	3		3.597	
-0.2233	712E 03	0.3C87034E	03	0.3823UUU 3.3671334	E 03		937	·· \	3.453	<u></u> ي	.0817	28			<u> 4.796.</u>	
	383E 02		03	0.2011320 0.5675044	E 03	110	E47	- 4	0 267	0	0117	20 11	2		5.945 7.194	
		0.1C06309E	02	0.1164068	F 03	175	-041	,	5.336	ň	-0248	94			. 8. 393	
-0.8591	888 E 02	-0.2259427E	02	0.8884003	E 02	134	.734		4.342		.0189	99	A		9.594	
		0.2279933E							6.733	ō	-0104	30 .	8	4	10.791	
-0.3900	171E 02	0.1C83972E	03	0.1152002	E 03	250	.211	2	5.021	ō	.0246	36	10_	_i	LL. 990.	
	=-															
							.*									
MACHONIC																
		40DEL CL8705 14D = 0.641590		33 I	oto	LIK	45 1	FLI	15.0	IK	11 3	FLAP	REND	514 43		
37 2	10210 63	- 0.041310	, ,											•		
ZERO POSI	TION USE	D 8.27	L CAD	/IN USED		-30600	-00									
		BJ		cJ		PH	LJC	P	SIJC	C	J/CJM	AX	7	FRE.	MENCY	
-0.1603	313E 04															
-0.3161	457E 04	0.2277026E	04	0.396107	E 04	1+4	. 237	14	4.237	ı	-0000	0	1		1.199.	· ~ · ·
0.1774	A025 04	-0-22665105	04	J. 28 /8826	F 0+	338	.055	15	4.333	0	.7388	98	2		2.398	
	776E 04	-0.1693068E	04	0.2305428		31.2	.745	10	4.248	Ò	-5917 -0727 -0616	26	<u>4</u>		3.597	
-0.8795	929E 03	0.1935383E 0.2235741E	03	0.2833782	c 03	+ 3	.076	. 1	0.769	0	-0727	34	<u>\$</u> _		4.796_	
	783E 03	0.2235741E -0.3957137E	0.3	0.2402537	E 03	111	415	2	2.295	. 0	.0616	b5	5		5.995	
	194E 02	-0.5414508E		0.1364426 0.6349333			.514	3	4.010	Õ	0150		0		1.144	
-0.7353		-0.85595438		0.1159073			.623		4.073 8.828	ŭ	0207	7 f	. 7.		8.393.	٠.
	521E 02			0.1590755			.955		6.136	0	-0297	7U 7a	9		9.592	
		0.144 94 76E	03	0-1624782	E 03	234	.861	2	9.686	0	-0400	33				
	-		~ - '		43			&		9		·	~		70	

Table III. (Continued)

TEST 15	N =	3	(CONTINUED)															.
			40DEL CL870				TO	10	CTR	45	FLT	15.0	TR 4	1 2	FLAF	BEND	STA	110
JV ERALL (CACTI	C LJ4	AD = 0.21519	93E (34													•
ZERO POS	I T ION	USEC	0.39	ι	.CAD/	IN 'US	ED		-1415	0.00								•
			вЈ									PSIJC						REJUE ACA
-0.540	1936E	03	-0.15588866 -0.99003546 -0.62829766 0.17927536 0.32310276	02	٥	.5404	185E	03	13	1.653	1	181.653	٥.	4498	59	1		1.199
0.6804	4182E	03	-0.9900354	03	Q	.1201	307E	04	30	.499	,	152-250	i.	0000	00	Ž		4.396
-0.452	4927E	02	-0.62829766	03	0	.6299	248E	03	25	5.861		88.527	0.	5243	66	•		3.597
0.1939	9091E	02	J.1792753E	03	. 0	. 1 803	209 E	03	3.	3.827		20.957	, 0.	1501	04	4	,	4.790
-0.586	3926E	10	0.32310276	02	0	.3283	914E	02	130	.297	,	20.059	0.	0273	36	5		o. 995
0.615	a 5 1 7 E	02	-0.58173008 0.33910028 0.17316788 0.65953008	20	0	. 8471	619E	02	31	6.632	?	52.772	0.	0705	20	6		7.194
0.155	8824E	03	0.33910026	02	0	. 1 5 9 5	280E	03	1.	2.273	}	1.753	٥.	1327	95	. 7		5.393
0.644	8 306 E	02	0.1731678	03	0	. L 847	7841E	03	5	9.576	•	8.597	٥.	1538	19	8		y.592
-0.8378	9076E	02	0.65953008	02	a	-1091	450E	03	14	0.140)	15.571	0.	0908	55 ·	9		10.791
0.5794	4254E	02_	0.1,3590848	.03	0	. 1 47,7	'445E	_03		3.090	نــــن	11.339	0.	1229	86	1Q		11.990
; ·										•					•		•	
																		
HARMONIC JV ERALL (ANAL	SISY C L J4	MODEL CL8709 NO = 0.21106	5 ! 5E (SHI P 34	33	TO	10	CTR	45	FLT	15.0	TR 3	4 2	CHOR	RD BENI	514	. 21.
			3.11															
	LA		BJ			C	:J		P	HIJC		DL129	CJ	MLDV	AX	J	F	REQUENCY
0.153					_													
-0.161	2 4 30 E	03	-0.12224988	. 03	9	4.05	77006	. 03	33	J. 5/3		54 434		5244	30			
-0.17	0 4 20 E	03	0.37412388 0.22029648 0.24537378 -0.71738338	: 03	,	3040	,,,,,) : LE	E 300	,	40 433	٠.	5007	40	2	•	, 20370
-0.517	3445	03	0.22027070	: 03		5017	14575	. 03	1 15	5 6 EUG		20.733	٠.	7660	90.		٠.	5.371 4.70n
0.3330	4 543E	03	-0.24737373	. 03	,	760	14 DE E	. 03		1 160	′ .	50.232	٥.	0077	73			5 005
																		5.995 · 7.194
0.186	2458F	03	0.74376320	01	č	1 862	7777C	. 02		1.867	,	0.124	n.	2415	05	7		8.393_
-0.348	0403F	03	0.1802180	. 02		348	0.46	. 03	17	7.034		22.129	0.	4520	26	6 -	,	9.592
0-223	4852E	03	0.28176608 0.18021808 0.13185508	03	ā	2594	829E	01	3	0.540	í	3.393	0.	3365	58.	ğ		10.791
0.123	5919E	03	0.41897746	02	ā	-1 305	005 E	03	1	B . 727		1.873	ā.	1692	63	15		11-990
								~ =-										:
	-									. : .	• •							
•			400EL CLATOI	, ,	HI P			10	CTD	46	FLT	15.3	TR 3	8 2	CHOR	D bêNû	514	69
HARMONIC DV ERALL C			D = 0.15586			33	ro		CIR	73								
DV ERALL C	YCLI	. LO4		6E 0	4											•		
DV ERALL O	T ION	USED	D = 0.15586	6E 0	.OAD/	IN US	EΟ		L623	.00		DETTE	<u></u>	16 14	A V			DE:hiza-w
OVERALL C	YCL II IT ION IJ	USED	D = 0.15586 1.15 BJ	6E 0	.OAD/		EΟ		L623	.00		PSIJC	CJ	/CJM	AX	j	F	KEQUE 45 Y
ZERO POSI	YCL II IT ION J 5 493E	USED 03	D = 0.15586	6E 0	.DAD /	IN US	J		L6200	11 JC		62 012	•	7447	70			1 100
ZERO POSI	YCL II IT ION J 5 493E	USED 03	D = 0.15586	6E 0	.DAD /	IN US	J		L6200	11 JC		62 012	•	7447	70			1 100
ZERO POSI	YCL II IT ION J 5 493E	USED 03	D = 0.15586	6E 0	.DAD /	IN US	J		L6200	11 JC		62 012	•	7447	70			1 100
ZERO POSI -0.1765 0.3464 -0.1636	YCL II IT ION 3493E 5493E 5493E 5169E 5075E	USED 03 03 02 03	0.15586 1.15 BJ -0.3762346E 0.1724214E 0.1727457E	02 03 03	0 0 0	3485 .1809	146E 785E	03 03 03	16200 Pr 351 131	1.00 11 JC 3.802 7.690		53.832 53.845 44.431	0. 0.	7447 3867 5084	79 53 49	1 2 3		1.199 2.398 3.597
ZERO POSI -0.1765 0.3464 -0.1636	YCL II IT ION 3493E 5493E 5493E 5169E 5075E	USED 03 03 02 03	0.15586 1.15 BJ -0.3762346E 0.1724214E 0.1727457E	02 03 03	0 0 0	3485 .1809	146E 785E	03 03 03	16200 Pr 351 131	1.00 11 JC 3.802 7.690		53.832 53.845 44.431	0. 0.	7447 3867 5084	79 53 49	1 2 3		1.199 2.398 3.597
ZERO POSI -0.1765 0.3464 -0.1636	YCL II IT ION 3493E 5493E 5493E 5169E 5075E	USED 03 03 02 03	0.15586 1.15 BJ -0.3762346E 0.1724214E 0.1727457E	02 03 03	0 0 0	3485 .1809	146E 785E	03 03 03	16200 Pr 351 131	1.00 11 JC 3.802 7.690		53.832 53.845 44.431	0. 0.	7447 3867 5084	79 53 49	1 2 3		1.199 2.398 3.597
VERO POSI -0.1765 0.3464 -0.1636	YCL II IT ION 3493E 5493E 5493E 5169E 5075E	USED 03 03 02 03	0.15586 1.15 BJ -0.3762346E 0.1724214E 0.1727457E	02 03 03	0 0 0	3485 .1809	146E 785E	03 03 03	16200 Pr 351 131	1.00 11 JC 3.802 7.690		53.832 53.845 44.431	0. 0.	7447 3867 5084	79 53 49	1 2 3		1.199 2.398 3.597
VERO POSI -0.1765 0.3464 -0.1636	YCL II IT ION 3493E 5493E 5493E 5169E 5075E	USED 03 03 02 03	0.15586 1.15 BJ -0.3762346E 0.1724214E 0.1727457E	02 03 03	0 0 0	3485 .1809	146E 785E	03 03 03	16200 Pr 351 131	1.00 11 JC 3.802 7.690		53.832 53.845 44.431	0. 0.	7447 3867 5084	79 53 49	1 2 3		1.199 2.398 3.597
VERO POSI -0.1765 0.3464 -0.1636	YCL II IT ION 3493E 5493E 5493E 5169E 5075E	USED 03 03 02 03	D = 0.15586	02 03 03	0 0 0	3485 .1809	146E 785E	03 03 03	16200 Pr 351 131	1.00 11 JC 3.802 7.690		53.832 53.845 44.431	0. 0.	7447 3867 5084	79 53 49	1 2 3		1.199 2.398 3.597

Table III. (Continued)

TEST 15 N =	4									
HARMONIC ANALY				P 33 T 0	10	CTR 46 F	LT 15.3	TR 6 1 FLAP	טאשט נ	5TA 43
ZERO POSITION	USED	9.51	LCA	O/IN USED		-26400.00				
· AJ		BJ		CJ		PHIJC	PSIJC	CJ/CJMAX		FKEJUENCY
-0.2704398E										
-0.1790212E		0.1471511E		0.2317370E			140.531		ı	1.193 .
0.2389080E		0.5634023E		0.2454613E		13.269	6.635	0.440258	2	2.387
0.4724387E		-C.2960621E		0.5575398		327.926	109.339	1.000000	3	3.560
0.4329568E		0.2503985E		0.50018556		30.040	7.510	0.089713	<u>•</u>	4.773
0.14826846		0.15679968		0.2158000E		46.602	9.320		5	5.967
-0.8880566E		0.71190588		0-1138180E			23.547	0.020414	6	7.160
-0.7769992E		-0.1323773E		0.78819496		139.669		0.014137	7	8.353
0.1391363E		0.1455647E		0-20136526			5.787	0.003612	8	9.547
-0.4608805€		-0.4586670E		0.46097676			29.352			10.740
0-1941,748E	02	-0. 2080115	U3	0.15204616	. 13	21 (+331,	21-134	0.027271	10	11.933
HARMONIC ANALY					10	CTR 46 F		TR 31 2 FLAP	BEND :	5TA 43
OVERALL CYCLIO							** * *			
ZERO POSITION	USED	3.75	L CA (O/IN USED		25900.00				
Į.				CJ		PHIJC	PSIJC	CJ/CJHAX	J	FREJUENCY
-0.3168299E										
-0.1594072E		0.4282500E	03	0.1650595E			164.952	0.300530	1	
0.2590189E		0.25811828		0.2603018E			2.845		2	2.387
0.4431961E		-0.3243885E		0.5492273		323.798	107.933		3	3.580
0.4543201E		0.3473081E		0.57186506		37.396	9.349	0.104122	<u> </u>	4.773
0.6085649E		0.3048198E		0.31083546		78.709	15.742		>	5.967
-0.2742696E		0.1204906E		0.12357276		132.824	17.137			7.160
-0.7245317E		0.5C14871E				145.311	20.759		7	
-0.4179076E		-0.1246529E		0.43610216			24.576		8	9.547
-0.2168909E		-0.3575488E		0.41853186			26.532	0.007620	9	10.740
Q.2749619E	. 02	-0.12802525	.03	0-1309713E	03	257.881	25.788_	0.023846	10	
						•				
HARMONIC ANALY	/SIS 4:	DEL CL8705	SHI	. 33 T O	10	CTR 46 F	LT 15.0	TR 11 3 FLAP	AEND S	TA 44
OVERALL CYCLIC	LOAD	- 0.778399	E 04							
ZERO POSITION	USED	8.27	LCAI)/IN USED	-	-30400.00				•
AJ -0.2960123E	04	BJ		СJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.1222292E		0.2426496E	03	0.1246144E	04	148 - 772	168.772	0.229849		1 103
0.1921512E		0.1352167E		0.2349588E		35.134	17.557	0.433377	· <u>1</u>	1.193 2.387
0.50251256		-0.20351116		U-5421582E		337.953	112.651		3	3.580
0.3795286E		0.5820576E		0.6948618E	_			0.128166	5	4.773
-0.3420 647E		0.2334866E		0.23351176		90.839	18.158	0.043071		
-0.1254865E		0.1204083E		0.17391106		136.183	22.597		6	5.967 7.160
-0.1374693E		0.1459082E				133.294	19.342	0.036976		
-0.1027926E		0.5180220E		0.1151077E		153.254	19.157	0.03070	(8.353 9.547
0.1168904E		-0.2093681E		0-2096942E		273.196	30.355	0.021231	9	
-0.3018262E				0-15349806	02	258.474	30.337	0.003000		10.740
	J	-452007505			, 55			0+04037 (19	11.933

Table III. (Continued)

TEST 15 N =	4 (co	NT I NUED)								
MARMONIC ANALY OVERALL CYCLIC				33 T 0	10	CTR 46 FI	LT 15.0	TR 41 2 FLAI	BEND S	T4 118
ZERO POSITION			LCAD	IN USED		-14150.00				•
AJ -0.1158994E		BJ		CJ		PHI JC	PSIJC	CJ/CJMAX		FREQUENCY
-0.1158994E		.6367639E	03 0	4384903E	. 03	255.786	265 786	0.339728		. 1-193
0.9293550E		.3158572E		.9815632E				0.522271	,	1.193 2.387 3.580 4.773 5.967
0.1421227E		-1229763E		.18794158				1.000000	3	3.260
0.1109520E		.2C87158E				52.005		0.125770	•	4.77à
0.1084109E		.6662738E		.1272483E	03	31.574	6.315	0.067706	. 5	5.967
0.6178284E	01 0	.6593584E	01 0	.9331741E	01	48.542	8.090			
0.6628174E	02 0	.1C79523E		.6715504E		9.250		0.035732	7	8.353
0.6389740E		.1483468E	03 0	-1615229E		66.697	8.337		8	9.547
0.8669281E		-1144002E		.14353768		52.845	5.872	0.076374	. 9	10.740
0.1335718E	.020	.331 2715E	03 0	.3315405E	03	87,691	8.7.69	0.176506	10	11.933_
									٠	
			. •				<u></u>			
HARMONIC ANALY	SIS MOD	EL CL8705	SHI P	33 T 0	10	CTR 46 FI	LT 15.0	TR 34 2 CHOF	D BEND	STA 21.
OVERALL CYCLIC	LOAD -	0. 29927	E 04							
ZERO POSITION	USED	3.11	LCAD/	IN USED		-20300.00				
· AJ ·		BJ	** *	CJ		PH1 JC	PSIJC	CJ/CJHAX		FREQUENCY
0.1849430E										
0.5653096E	03 -0	.7C98463E	02 0	.5697488E	03	352.843	352.843	0.488059		1.193
-0.6347017E	03 0	.9061177E	01 0	.6347664E	03	179.182	89.591	0.543754 0.709459 0.162889	2	2.387
-0.7329885E		.38555628		.8282063E		152.255	50.752	0.709459	3	3.580
-0.2534686E	02 -0	.1884559E	03 0	.1 9015286	03	252.340	65.585	0.162889		4.773
-0.2687527E		.1136021E	04 0	.11673788	04	256.690	51.338	1.000000	5	5.967
-0.4641526E	01 0	-1726384E	03 0	-1 727008E	03	91.540	15.257	0.147939	6	7-100
0.3749779E	03 0	.2C47955E	03 0	.4271704E	03	28.648	4.093	1.000000 0.147939 0.365923	7	8.353_
-0.3552134E	03 0	.2C47955E	02 0	.3573843E	03	173.681	21.710	0.306143 0.132461	8	9.547
0.1542680E	03 -0	-1060910E	02 0	. L 546324E	03	356.066	39.563	0.132461	9	10.740
0.2189835E	.030	-8112912E	.020	. 2 3352 88E	_03	20.329	2.033_	0.200046	10	11.935.
HARMONIC ANALY DVERALL CYCLIC				33 1 6	,,,	CIR 40 FI	. 12.0	1 K 30 2 CHU?	O BEND	314 07
EERO POSITION	USED		LOAD/			16230.00				
AJ 0.3808407E				CJ		PHI JC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.2600034E		-2C60789E	02 0	.2608186E	03	355.468	355.458	0.353604		1.193
-0.4074631E	03 -0	.4786655E	02 - 0	.4 102649E	03	186.700	93.350		2	2.387
-0.5213127E	03 0	.3433792E	03 0	-6242405E	03	146.628	48.876	0.846313	3	3.580
0.4962612E	010	-1655439E	03 0	. 1 6561 83 8	03	271.717	67.929	0.224537		4.773_
-0.2172606E	03 -0	.7C48774E	03 0	.7376003E	03	252.869	50.574	1.00000	5	5.907
0.3149046E	02 0	.1152240E	03 0	.1194496E		74.714	12.452	0.161943	_	7.140
0-2700027E	03 0	.7582405E	02 0	.2 804473E		15.686	2.241	0.380516	. 7.	8.353
-0.2636794E	03 0	.4989270E	02 0	.2683582E		159.285	21-191	0.363826	8	9.547
0.8341194E	02 -0	.4C08049E	02 0	.92541878	. 02	334.335	37 140	0.125463	9	. LU.740
								0.208700	10	

Table III. (Continued)

TEST	15		N -	5				·												
HARM	ON E	C A	NAL	YSIS	400E	L CL	8705	s	HI P	33	T 010	CTI	R 47	FLI	15.0	TR 6	1 FLAS	BEND	STA 43	
							11389													
ZERO	PO	S I T	ION	USEC)	9.	.51		-				400-00							
						e				CJ			PHIJC		PSIJC	či/ć	JMAX	J	FKE	QUE VSY
			PLE		_									_						
			17E	03			3672E 4130E				16E 0		136.35 51.15		136.359 25.576		5698	. 1		1.189
			136				8973E				194E (322 . 99		107.665		1976	2		2.378
			109 E				81 6 2 E				55E C		353.6L		89.454		5147			3.567
			153E				1887E				17E C		325.04		65.038	. 0.03	5142	\$	··	4.756
			54 E				0963E				LGE C		145.00		24-157		4143	. ,		5.945 7.134
			05E				9604E				98E 0		122.24		17.464	0.02	3322	7		8.323
			12E				4352E				34E 0		222.73		27.841	0.01	0297	á		
				02			7912E				46E 0		333.72		33.747		8898			9.512
			67E				9684E				48E C	-	285.35		28.535		6204	10_		14.891
·Ÿ			012			7.1.2	10 0 4 E			.2113	ZOE L		F05-33	-			044	٨Ψ		TY OAT
	. `																			
-	•																			•
									HI P	33	T OLG	CTI	R 47	FLT	15.0	TR 31	2 FLAF	BEND	STA 43	
OV ER	ALL	CY	a I	C LOA	D =	0.1	11253	9E 0	5					**						
	_									,						•				
ZERO	PO						.75		CAD/II				900.00							
																		•		
						8	3J." ("		•	CJ	· · · ·		PHI JC		PSIJC	CJ/C	JAAX		FKE	JUENZY
		045	67 E	04														 -	FKE	JUE AZA
-0	.77	045 633	67 E	04 03	-0.	1376	61 88E	03	0.1	8843	33E 0	3 . 1	190.05	2	190.352	0.09	9283	<u>;</u>	FKE	
-0 0	.77 .22	045 633 531	67E 101E 161E	04 03 04	-o. 0.	1376 2989	61 88E 9073E	03 04	0.1	8843 17431	33E 0	3 . I	190.05 52.99	2	190.352 26.495	0.09	9283. <u> </u>	12	FRE	
-0 0 0	.77 .22 .62	045 633 531 117	67 E 101 E 161 E 146 E	04 03 04 04	-0. 0. -0.	1376 2989 4947	61 88E 90 73E 74 84E	03 04 04	0.1 0.3 0.1	/ 8843 7431 9412	33E 0 66E 0	3 . 1 4 14 :	190.05 52.99 321.46	2 1 4	190.352 26.495 107.155	0.09 0.47 1.00	9283	1	FKE	1.189
-0 0 0	.77 .22 .62	045 633 531 117 801	67E 101E 161E 146E 168E	04 03 04 04 03	-0. 0. -0.	1376 2989 4947 3033	61 88E 90 73E 74 84E 35 1 3E	03 04 04 03	0.1 0.3 0.1	78843 17431 79412 77026	33E 0 66E 0 46E 0	3 . 1 4 4 . :	190.05 52.99 321.46 336.80	2 1 4 7	190.352 26.495 107.155 _84.202	0.09 0.47 1.00	9283. <u> </u>	12	FKE	1.189 2.378 3.567
-0 0 0 0	.77 .22 .62 .70	045 633 531 117 801	67E 01E 61E 46E 68E 27E	04 03 04 04 03 03	-0. 0. -0. -0.	1376 2589 4947 3033 1806	61 88E 90 73E 74 84E 35 1 3E 06 70E	03 04 04 03 02	0.1 0.3 0.1 0.1	18843 17431 19412 17026	33E 0 66E 0 46E 0 61E 0	3	190.05 52.99 321.46 336.80	2 1 4 7	190.352 26.495	0.09 0.47 1.00 0.09	9283 1357 0000 6996 9103	2 3 4	FKE	1.189 2.378 3.567
-0 0 0 0	.77 .22 .62 .70 .31	045 633 531 117 801 000	67 E 101 E 161 E 146 E 168 E 127 E	04 03 04 04 03 03	-0. 0. -0. -0.	1376 2589 4947 3033 1806	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E	03 04 04 03 02 02	0.1 0.3 0.1 0.1	78843 17431 79412 77026 11052	33E 0 66E 0 46E 0 61E 0	3 . 1 4 14 13	190.05 52.99 321.46 336.80 350.67	2 1 4 7 6	190.352 26.495 107.155 84.202 71.335 9.639	0.09 0.47 1.00 0.09 0.03 0.01	9283 1357 0000 6996 9103 4617	2 3 4 5	FKE	1.189 2.378 3.567 4.750
-0 0 0 0	.77 .22 .62 .70 .31	045 633 531 117 801 000	67 E 101 E 161 E 146 E 168 E 127 E	04 03 04 04 03 03	-0. 0. -0. -0.	1376 2589 4947 3033 1806	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E	03 04 04 03 02 02	0.1 0.3 0.1 0.1	78843 17431 79412 77026 11052	33E 0 66E 0 46E 0 61E 0	3 . 1 4 14 13	190.05 52.99 321.46 336.80 350.67	2 1 4 7 6	190.352 26.495 107.155 84.202 71.335	0.09 0.47 1.00 0.09 0.03 0.01	9283 1357 0000 6996 9103	2 3 4 5	FRE	1.189 2.378 3.567 4.750 5.945 7.134
-0 0 0 0 0	.77 .22 .62 .70 .31 .62	045 633 531 117 801 000 107 6	67E 161E 146E 146E 127E 104E	04 03 04 04 03 03	-0. 0. -0. -0.	1376 2989 4947 3033 1806 9806	61 88E 90 73E 74 84E 35 1 3E 06 70E	03 04 04 03 02 02	0.1 0.3 0.1 0.3 0.3	78843 17431 79412 77026 11052 11608	33E 0 66E 0 46E 0 61E 0	3 . 1 4 6	190.05 52.99 321.46 336.80 350.67	2 1 4 7 6 4	190.352 26.495 107.155 84.202 71.335 9.639	0.09 0.47 1.00 0.09 0.03 0.01	9283 1357 0000 6996 9103 4617	2 3 4 5 6		1.189 2.378 3.567 4.750 5.945 7.134
-0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28	045 633 531 117 801 000 107 6473	67E 101E 161E 146E 127E 104E 131E	04 03 04 04 03 03 02 02	-0. -0. -0. -0. 0.	1376 2585 4547 3033 1806 5806 8706	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E 02 76E	03 04 04 03 02 02 02 02	0.1 0.3 0.1 0.3 0.1	78843 77431 79412 77026 31052 11608 91421	33E 0 66E 0 46E 0 61E 0 51E 0	3 1 4 4 1 3 1 3 1 3 2	190.05 52.99 321.46 336.80 350.67 57.65	2 1 4 7 6 4 4	190.352 26.495 107.155 84.202 71.335 9.639 10.302	0.09 0.47 1.00 0.09 0.03 0.01 0.01	9283 1357 0000 6996 9103 4617 1512	2 3 4 5 6 7		1.189 2.378 3.567 4.750 5.945 7.134
-0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40	045 633 531 117 801 000 107 6473 939	67E 101E 161E 146E 127E 104E 109E	04 03 04 04 03 03 02 02 02	-0. 0. -0. -0. 0.	1376 2989 4947 3033 1800 9806 8700 5341 3639	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E 02 76E 14 26E 981 2E	03 04 04 03 02 02 02 02 02	0.1 0.3 0.1 0.1 0.1	78843 17431 79412 77026 1052 1608 1421 53414	33E 0 66E 0 46E 0 61E 0 51E 0 40E 0 28E 0	3 1 4 4 3 1 3 1 3 2 2 2	190.05 52.99 321.46 336.80 350.67 57.65 72.11 259.95	2 1 4 7 6 4 4 6	190.352 26.495 107.155 84.202 71.335 9.639 10.332 33.745	0.09 0.47 1.00 0.09 0.03 0.01 0.01	9283	1 2 3 4 5 6 7		1.189 2.378 3.567 4.750 5.945 7.134 8.323 9.512
-0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40	045 633 531 117 801 000 107 6473 939	67E 101E 161E 146E 127E 104E 109E	04 03 04 04 03 03 02 02 02	-0. 0. -0. -0. 0.	1376 2989 4947 3033 1800 9806 8700 5341 3639	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E 02 76E 14 26E 981 2E	03 04 04 03 02 02 02 02 02	0.1 0.3 0.1 0.1 0.1	78843 17431 79412 77026 1052 1608 1421 53414	33E 0 66E 0 46E 0 61E 0 51E 0 40E 0 28E 0	3 1 4 4 3 1 3 1 3 2 2 2	190.05 52.99 321.46 336.80 350.67 57.65 72.11 259.95	2 1 4 7 6 4 4 6	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745	0.09 0.47 1.00 0.09 0.03 0.01 0.01	9283	1 2 3 4 5 6 7		1.189 2.378 3.567 4.750 5.945 7.134 8.323 9.512
-0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40	045 633 531 117 801 000 107 6473 939	67E 101E 161E 146E 127E 104E 109E	04 03 04 04 03 03 02 02 02	-0. 0. -0. -0. 0.	1376 2989 4947 3033 1800 9806 8700 5341 3639	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E 02 76E 14 26E 981 2E	03 04 04 03 02 02 02 02 02	0.1 0.3 0.1 0.1 0.1	78843 17431 79412 77026 1052 1608 1421 53414	33E 0 66E 0 46E 0 61E 0 51E 0 40E 0 28E 0	3 1 4 4 3 1 3 1 3 2 2 2	190.05 52.99 321.46 336.80 350.67 57.65 72.11 259.95	2 1 4 7 6 4 4 6	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745	0.09 0.47 1.00 0.09 0.03 0.01 0.01	9283	1 2 3 4 5 6 7		1.189 2.378 3.567 4.750 5.945 7.134 8.323 9.512
-0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40	045 633 531 117 801 000 107 6473 939	67E 101E 161E 146E 127E 104E 109E	04 03 04 04 03 03 02 02 02	-0. 0. -0. -0. 0.	1376 2989 4947 3033 1800 9806 8700 5341 3639	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E 02 76E 14 26E 981 2E	03 04 04 03 02 02 02 02 02	0.1 0.3 0.1 0.1 0.1	78843 17431 79412 77026 1052 1608 1421 53414	33E 0 66E 0 46E 0 61E 0 51E 0 40E 0 28E 0	3 1 4 4 3 1 3 1 3 2 2 2	190.05 52.99 321.46 336.80 350.67 57.65 72.11 259.95	2 1 4 7 6 4 4 6	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745	0.09 0.47 1.00 0.09 0.03 0.01 0.01	9283	1 2 3 4 5 6 7		1.189 2.378 3.567 4.750 5.945 7.134 8.323 9.512
-0 0 0 0 0 0 0 -0 0	.77 .22 .62 .70 .31 .62 .28 .40	045 531 117 801 000 107 078 473 935 331	67E 101E 61E 46E 27E 04E 131E 109E 100E	04 03 04 04 03 03 02 02 -01 02 03	-0. 0. -0. -0. -0. -0.	1376 2589 4941 3033 1800 9806 8700 5341 3639 1798	61 88E 90 73E 74 84E 35 1 3E 06 7 0E 68 02E 02 76E 14 26E 981 2E 86 3 4E	03 04 04 03 02 02 02 02 02 03	0.1 0.3 0.1 0.1 0.1	78843 7431 79412 77026 31052 11608 91421 53414 2498 20742	33E 0 66E 0 46E 0 61E 0 51E 0 40E 0 28E 0	3 4 4 4 4 4 4 4 4 4	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 301.07	2 1 4 7 6 4 4 6 9 3	190.052 26.45 107.155 84.202 71.335 9.609 10.302 33.453 29.987	0.09 0.47 1.00 0.09 0.03 0.01 0.01 0.00 0.00	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120	2 3 4 5 6 7 8 9		1.189 2.378 3.567 4.750 5.945 7.134 8.344 9.514 10.702
-0 0 0 0 0 0 -0 0	.77 .22 .62 .70 .31 .62 .28 .40 .21	045 633 531 117 801 000 107 8473 939 3331	67E 101E 61E 68E 27E 04E 109E 100E 13BE	04 03 04 04 03 03 02 02 -01 02 03_	-0. 0. -0. -0. 0. -0.	1376 2589 4941 3033 1800 9806 8700 5341 3639 1798	61 88E 90 73E 74 84E 35 1 3E 06 7 0E 68 02E 02 76E 14 26E 981 2E 86 3 4E	03 04 04 03 02 02 02 02 02 03	0.1 0.3 0.1 0.1 0.5 0.5 0.6	78843 7431 79412 77026 31052 11608 91421 53414 2498 20742	33E 0 66E 0 46E 0 61E 0 51E 0 02E 0 40E 0 28E 0 37E 0	3 4 4 4 4 4 4 4 4 4	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 301.07	2 1 4 7 6 4 4 6 9 3	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745	0.09 0.47 1.00 0.09 0.03 0.01 0.01 0.00 0.00	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120	2 3 4 5 6 7 8 9		1.189 2.378 3.567 4.750 5.945 7.134 8.344 9.514 10.702
-0 0 0 0 0 0 -0 0	.77 .22 .62 .70 .31 .62 .28 .40 .21	045 633 531 117 801 007 647 333 1	67E 01E 61E 66E 27E 04E 31E 09E 00E 38E	04 03 04 04 03 03 02 02 -01 02 03 -7 SIS C LOA	-0. -0. -0. -0. -0. -0.	1376 2585 4947 3033 1800 5806 8700 5341 3635 1796	61 88E 90 73E 74 84E 35 13E 06 70E 68 02E 02 76E 14 26E 98 12E 86 34E	03 04 04 03 02 02 02 02 02 03 SE 0	0-1 0-3 0-1 0-1 0-5 0-5 0-4 0-2	78843 7431 79412 79026 31052 1608 1421 53414 2498 20742	33E 0 66E 0 46E 0 51E 0 51E 0 52E 0 28E 0 37E 0	13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 301.07	2 1 4 7 6 4 4 6 9 3	190.052 26.45 107.155 84.202 71.335 9.609 10.302 33.453 29.987	0.09 0.47 1.00 0.09 0.03 0.01 0.01 0.00 0.00	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120	2 3 4 5 6 7 8 9		1.189 2.378 3.567 4.750 5.945 7.134 8.344 9.514 10.702
00 00 00 00 00 00 00 00 00 00 00 00 00	.77 .22 .62 .70 .31 .62 .28 .40 .21	045 633 531 117 801 000 07 07 07 33 33 1	67E 01E 66E 68E 27E 04E 31E 09E 00E 38E	04 03 04 04 03 03 02 02 -01 02 03 -7 SIS C LOA	-0. -0. -0. -0. -0. -0.	1376 2585 4947 3033 1800 9806 8700 5341 3635 1.798	61 88E 90 73E 74 84E 35 13E 06 70E 68 02E 06 76E 14 26E 98 12E 98 13E 86 34E	03 04 04 03 02 02 02 02 02 03 SE 0	0-1 0-3 0-1 0-1 0-5 0-5 0-4 0-2	78843 17431 79412 77026 31052 11608 91421 53414 52498 20742 33	33E 0 66E 0 61E 0 51E 0 02E 0 40E 0 73E 0 37E 0	13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 301.07 239.87	2 1 4 7 6 4 6 9 3	190.052 26.495 107.155 84.202 71.335 9.60302 33.745 33.453 29.987	0.09 0.47 1.00 0.09 0.03 0.01 0.01 0.00 0.00	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120	2 3 4 5 6 7 8 9	STA 43	1.189 2.378 3.567 4.750 5.945 7.134 8.344 9.512 10.702 11.891
-0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .21 .10	045 633 531 117 801 000 07 07 64 73 33 1	67E 01E 66E 66E 27E 04E 31E 09E 00E 38E	04 03 04 04 03 03 02 02 02 01 02 03 VSIS C LOA	-0. -0. -0. -0. -0. -0.	1376 2585 4947 3033 1800 9806 8700 5341 3635 1.798	61 88E 90 73E 74 84E 35 1 3E 05 1 3E 06 8 02E 02 76E 14 26E 98 1 2E 86 3 4E	03 04 04 03 02 02 02 02 02 03 SE 0	0-1 0-3 0-1 0-1 0-5 0-5 0-4 0-2	78843 7431 79412 79026 31052 1608 1421 53414 2498 20742	33E 0 66E 0 61E 0 51E 0 02E 0 40E 0 73E 0 37E 0	13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 301.07 279.87	2 1 4 7 6 4 6 9 3	190.052 26.45 107.155 84.202 71.335 9.609 10.302 33.453 29.987	0.09 0.47 1.00 0.09 0.03 0.01 0.01 0.00 0.00	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120	2 3 4 5 6 7 8 9	STA 43	1.189 2.378 3.567 4.750 5.945 7.134 8.344 9.514 10.702
0-000000000000000000000000000000000000	.77 .22 .62 .70 .62 .28 .40 .21 .10	045 633 531 117 801 000 078 473 939 331 C CY S1T	67E 01E 61E 66E 68E 27E 04E 31E 00E 38E	04 03 04 04 03 03 02 02 02 03 03 VSIS C LOA	-0. 0. -0. -0. 0. -0. -0.	1376 2585 4947 3033 1870 9806 8706 5341 3635 1798	61 88E 90 73E 74 84E 35 1 3E 06 70E 60 22 76E 14 26E 981 2E 86 34E	03 04 04 03 02 02 02 02 03 SZE 0	0.1 0.3 0.1 0.1 0.1 0.5 0.5 0.6 0.6	78843 79412 77026 31052 11608 91421 33414 2498 20742	33E 0 66E 0 66E 0 61E 0 51E 0 28E 0 73E 0 37E 0	33 14 16 13 13 13 12 12 12 13 13 13 14 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	190.05 52.99 321.46 336.80 357.65 72.11 259.95 3301.07 279.87	2 1 4 7 6 6 4 4 6 6 9 3	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.00 0.02	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 8.343 9.512 10.702 11.891
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .21 .10	045 633 531 117 801 000 107 078 473 935 C CY S1T AJ 767 516	67E 01E 61E 64E 27E 04E 31E 09E 09E 38E	04 03 04 04 04 03 03 02 02 02 03 03 VYSIS C LOA 04 03	-0. -0. -0. -0. -0. -0.	1376 2585 4947 3033 1806 8706 5341 3636 1798 L CL 0.1	61 88E 90 73E 74 84E 35 1 3E 06 70E 68 02E 02 76E 14 26E 981 2E 86 34E	03 04 04 03 02 02 02 02 02 03 SZE 0	0.1 0.3 0.1 0.1 0.5 0.5 0.6 0.2	78843 17431 79412 77026 11052 11052 11052 11052 11052 11052 11052 11052 11052 11052 11052 11052 11052 11052 11052	33E 0 66E 0 61E 0 51E 0 02E 0 40E 0 29E 0 37E 0	33 14 14 13 13 13 13 12 12 13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 331.07 279.87	2 1 4 7 7 FLT	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 11	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 8.343 9.512 10.702 11.891
00 00 00 00 00 00 00 00 00 00 00 00 00	.77 .22 .62 .70 .31 .62 .28 .40 .21 .10	045 633 531 117 801 000 078 473 939 331 C CY S1T AJ 767 516	67E 01E 61E 64E 27E 04E 31E 009E 009E 38E	04 03 04 04 03 03 02 02 02 03 03 VSIS C LOA USED	-0. -0. -0. -0. -0. -0. -0. -0.	1376 2589 4947 1800 9806 8700 1341 3639 1.798 L CL 0.1	61 88E 90 73E 74 84E 35 1 3E 06 7 0E 68 02E 02 7 6E 14 2 6E 98 1 2 E 86 3 4 E	03 04 04 03 02 02 02 02 03 03 L	0.1 0.3 0.1 0.3 0.1 0.5 0.6 0.2 0.4	7 8843 17431 17431 17941 277026 81052 11608 11608 1162 1163 1163 1163 1164 1164 1167 1167 1167	33E 0 66E 0 61E 0 51E 0 62E 0 28E 0 73E 0 37E 0	-304	190.05 52.99 321.46 336.80 356.67 57.65 72.12 259.95 301.07 239.87	2 1 4 7 6 6 4 4 6 9 3 	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 11	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 8.343 9.512 10.702 11.891
00000000000000000000000000000000000000	.77 .22 .62 .70 .31 .62 .28 .40 .21 .10	045 633 531 117 801 000 078 473 939 547 516 767 516 536	67E 601E 661E 46E 68E 67E 07E 07E 00E 131E 100E 138E 100E 138E 100E 138E 100E 138E 100E 138E 100E 138E 100E 138E 1	04 03 04 03 03 02 02 -01 02 03 VSIS C LOA 04 03 04 04	-0. -0. -0. -0. -0. -0. -0.	1376 2589 4947 31800 9806 8700 5341 3639 1798 L CL 0-1 8-	81 88E 90 73E 74 84E 35 1 3E 068 02E 02 76E 14 26E 98 1 2E 86 3 4E 86 3 4E	03 04 04 03 02 02 02 02 02 03 SZE 0	0.1 0.3 0.1 0.1 0.5 0.5 0.6 0.6 0.6	78843 77431 79412 77026 81052 81052 81421 83414 82498 820742 833 841 841 841 841 841 841 841 841 841 841	33E 0 66E 0 61E 0 02E 0 02E 0 73E 0 73E 0	-304	190.05 52.99 321.46 336.67 57.65 72.11 259.95 301.07 279.87	2 1 4 7 7 6 6 4 4 6 6 9 3 7 7 8 8 5	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987 15.0	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 11	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 9.512 10.702 11.891
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .21 .10	045 531 117 801 007 633 1 601 67 67 67 67 67 67	67E 01E 61E 46E 46E 27E 04E 31E 09E 38E 10N 79E 30E 30E 30E 73E	04 03 04 03 03 02 02 -01 02 03 VYSIS C LOA USED	-0. -0. -0. -0. -0. -0. -0.	1376 2589 4947 31800 9806 8700 5341 3639 1798 L CL 0-1 8-	61 88E 90 73E 74 84E 35 1 3E 06 7 0E 68 02E 02 7 6E 14 2 6E 98 1 2 E 86 3 4 E	03 04 04 03 02 02 02 02 02 03 SZE 0	0.1 0.3 0.1 0.1 0.5 0.5 0.6 0.6 0.6	78843 77431 79412 77026 81052 81052 81421 83414 82498 820742 833 841 841 841 841 841 841 841 841 841 841	33E 0 66E 0 61E 0 51E 0 62E 0 28E 0 73E 0 37E 0	-304	190.05 52.99 321.46 336.80 356.67 57.65 72.12 259.95 301.07 239.87	2 1 4 7 7 6 6 4 4 6 6 9 3 7 7 8 8 5	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987 15.0	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 11	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 8.343 9.512 10.702 11.891
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .21 .10	045 531 117 801 007 633 1 601 67 67 67 67 67 67	67E 601E 661E 46E 68E 67E 07E 07E 00E 131E 100E 138E 100E 138E 100E 138E 100E 138E 100E 138E 100E 138E 100E 138E 1	04 03 04 03 03 02 02 -01 02 03 VYSIS C LOA USED	-0. -0. -0. -0. -0. -0. -0.	1376 2585 3033 1800 9806 8706 5341 3341 341 0.1 8.	81 88E 90 73E 74 84E 35 1 3E 068 02E 02 76E 14 26E 98 1 2E 86 3 4E 86 3 4E	03 04 04 03 02 02 02 02 03 SS 0 L	0.1 0.3 0.1 0.1 0.3 0.4 0.2 0.4 0.4	78843 77431 77412 77026 81052 81052 91421 33414 22498 20742 CJ 1194 1673 5237	33E 0 66E 0 61E 0 02E 0 02E 0 73E 0 73E 0	-304	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 331.07 2299.87 47	2 1 4 7 6 6 4 6 6 9 3 	190.052 26.495 107.155 84.202 71.335 9.60302 33.745 33.453 29.987	0.09 0.47 1.00 0.03 0.01 0.01 0.00 0.02 TR 18	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP JMAX	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 8.324 9.512 10.702 11.891
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .10 .10 .10 .10 .10 .10 .10 .10 .10 .1	0453 5317 8010 1077 933 C C Y T AJ 767 5160 1751 1611 1611	67E 601E 601E 601E 601E 601E 601E 601E 601	04 03 04 04 03 03 02 02 -01 02 03 03 USED 04 04 04 03 03	-0. -0. -0. -0. -0. -0. -0. -0.	1376 2589 3033 1800 9806 8706 5341 3341 31798 L CL 0.1	61 88E 90 73E 74 84E 35 13E 68 02E 68 02E 68 02E 68 03E 68 03E	03 04 04 03 02 02 02 02 03 03 04 04 04 03	0.1 0.3 0.1 0.1 0.5 0.6 0.6 0.6 0.7	78843 77431 77412 77026 81052 81052 91421 3341 422498 20742 33 44713 44713 44713 74713 74999	33E 0 66E 0 66E 0 61E 0 51E 0 28E 0 73E 0 73E 0 73E 0 73E 0 73E 0 73E 0	-304	190.05 52.99 321.46 336.80 355.67 72.11 259.95 301.07 279.87 PHIJC 252.38 57.16 138.54 21.92	2 1 4 7 6 6 4 6 6 9 3 	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987 15.0 PSIJC 252.387 33.584 112.848	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 11 CJ/C	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP JMAX 1906 7778 1906 7778	2 3 4 5 6 7 8 9 10	STA +3	2.378 3.567 4.750 5.945 7.134 8.343 9.512 10.702 11.891
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .10 .10 .10 .10 .10 .10 .10 .10 .10 .1	0453 5317 8010 1077 933 C C Y T AJ 767 5160 1751 1611 1611	67E 601E 601E 601E 601E 601E 601E 602T 6031E 603E	04 03 04 04 03 03 02 02 -01 02 03 03 USED 04 04 04 03 03	-0. -0. -0. -0. -0. -0. -0. -0.	1376 2585 3033 1806 9806 8341 3635 1798 L CL 0.1 8.	61 88E 90 73E 74 84E 35 13E 06 70E 68 02E 02 76E 14 26E 9812E 8634E 8705 10 803 27 34 26 07E 08 28 E 27 40E 31 97E	03 04 04 03 02 02 02 02 03 03 04 04 04 04 03	0.1 0.3 0.1 0.1 0.5 0.5 0.5 0.5 0.6 0.6 0.6	78843 77431 79412 77026 810608 10421 33414 820742 33 33 4713 4713 5237 9093 6585	33E 0 66E 0 61E 0 61E 0 62E 0 40E 0 29E 0 73E 0 37E 0 D	-304	190.05 52.99 321.46 336.80 356.67 57.65 72.11 259.95 331.07 2299.87 47	2 1 4 7 6 6 4 6 6 9 3 	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987 15.0	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 11 CJ/C	9283 1357 0000 6996 9103 1512 6726 5352 6120 3 FLAP JMAX 1906 7778 7778 1906 1925	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 9.512 10.702 11.891 1.189 2.378 3.567 4.750 5.945 7.134
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .28 .40 .10 .10 .10 .10 .10 .10 .10 .10 .10 .1	045317 663317 80007 67331 C C T T AJ7 5160 507331 16161 178	67E 601E 601E 601E 601E 601E 601E 601E 601	04 03 04 04 03 03 02 02 -01 02 03 03 VSIS C LOA 04 03 04 03 04 03 02 04 03 02 02 03 03 03 03 03 03 03 03 04 04 04 05 05 06 06 06 06 06 06 06 06 06 06 06 06 06	-0. -0. -0. -0. -0. -0. -0. -0.	1376 4943 3033 1800 8700 5341 3633 1798 L CL 0.1 8.	81 88E 90 73E 74 84E 35 1 3E 06 8 02E 02 76E 14 26E 98 1 24E 86 3 4E 87 05 10 8 03 27 86E 27	03 04 04 03 02 02 02 02 03 03 04 04 04 03 02	0.1 0.3 0.1 0.1 0.5 0.5 0.6 0.6 0.6 0.6 0.6	78843 77431 77412 77026 81050 81050 81050 81050 81421 8341 8448 80742 7472 8473 8471 8471 8471 8471 8471 8471 8471 8471	33E 0 66E 0 61E 0 502E 0 73E 0 37E 0 73E 0 79E 0 90E 0	-304	190.05 52.99 321.46 336.80 350.67 57.65 72.11 259.95 301.07 279.87 PHIJC 252.33 57.16 138.54 21.92 8.50 137.16 156.73 166.73	2 1 1 7 6 4 4 6 6 9 3 7 8 8 5 9 8 8 8 9 8 8 9 8 8 8 9 8 8 8 8 9 8 8 8 8 9 8	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987 15.0 PSIJC 252.387 33.584 112.848 5.492 1.702 22.850 23.819	0.09 0.47 1.00 0.03 0.01 0.01 0.00 0.02 TR 11 CJ/C	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAP JMAX 1906 7778 0000 4086 1925 2198	2 3 4 5 6 7 8 9 10	STA +3	1.189 2.378 3.567 4.750 5.945 7.134 8.324 9.512 10.702 11.891 12.378 3.567 4.750 5.945 7.134 8.323
-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.77 .22 .62 .70 .31 .62 .43 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	0453 5317 80107 80107 833 C C Y T AJ 767 617 617 617 617 617 617 617 617 617	67E 01E 61E 46E 46E 27E 04E 33E 33E 38E 73E 47E 05E	04 03 04 04 04 03 02 02 02 -01 02 03 04 03 04 04 03 04 03 04 03 04 03 03	-0. -0. -0. -0. -0. -0. -0. -0.	1376 4947 3033 1800 98006 5341 3639 1798 L CL CL CL CL CL 2473 2473 2473 2473 2473 2473 2473 2473	81 88E 90 73E 74 84E 35 1 3E 68 02E 68 02E 68 02E 68 02E 98 1 2E 88 34E 87 05 10 8 03 27 86E 27 86E 27 86E 27 86E 27 86E 27 86E	03 04 04 03 02 02 02 03 03 04 04 04 04 03 02 02 02	0.1 0.3 0.1 0.3 0.4 0.4 0.4 0.4 0.4 0.1	78843 77431 77412 77026 81052 81052 91421 33414 22498 20742 1194 1673 33 1 USE CJ	33E 0 66E 0 61E 0 502E 0 737E 0 737E 0 79E 0 99E 0 26E 0 26E 0	-304 -33 -33 -34 -304 -33 -33 -33 -33 -33 -33 -33 -33 -33 -3	190.05 52.99 321.46 336.80 356.67 57.61 259.95 301.07 239.87 47 400.00 PHIJC 252.38 57.16 38.54 21.92 8.50 (37.16)	21147766446693	190.052 26.495 107.155 84.202 71.335 9.609 10.302 33.745 33.453 29.987 15.0 PSIJC 252.387 33.584 112.848 5.492 1.702 22.850 23.819	0.09 0.47 1.00 0.09 0.01 0.01 0.00 0.02 TR 18 CJ/C 0.03 0.55 1.00 0.11 0.01	9283 1357 0000 6996 9103 4617 1512 6726 5352 6120 3 FLAF 1906 7778 0000 4086 1925 6213	2 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	STA 43	1.189 2.378 3.567 4.750 5.945 7.134 8.323 9.512 10.702 11.891 1.189 2.378 3.567 4.750 5.945 7.134

Table III. (Continued)

TEST 15 N = 5	(CONTINUED)						
	40DEL CL8705 St AD = 0.401839E O		CTR 47 F	LT 15.0	TR 41 2 FLAF	BENO S	118
	D 0.39 L		-14150.00				•
LAJ	BJ	cJ	PHIJC	"DL129	CJ/CJMAX		FREQUENCY
-0.1324651E 04							
0.1803198E 03	-0.7666760E 03	0.7875959E 0	283.235	283.235	C.274401		1.189
0.7472942E 03	0.1015709E 04	0-1260997E 0	53.657	26.828	0.439336	2	2.378
0.21723186 04	-0.1875974E 04	0.2870233E 0	319.187	106.396	LAGGGGG	4	
0.11033726 03	0.76640888 02	0.1310131E 0		8.157	0.045645	4	4.750
0.1728699E 03	-0.6412424E 02	0.1843798E 0		67.930	0.064239	5	5.945 7.134 8.323 9.512 10.702
-0.7182426E 02	-0.366362CE 02	0.8062837E 0		34.504	0.028091	٥	7.134
0.1833623E 03	0.1791734E 02	0.1842356E 0		0.797	0.064188	7	8.323
0.2941742E 02	0.2036790E 03	0.2057924E 0	91.782	10.223	0.071699	8	9.512
0.8913335E 02	0.1066071E 03	0.1389598E 0		5.567	0.048414	9	10.704
0.7007602E_01_	0.2634824E 03	0.2635754E_0	888.47 <u>6</u> _	8.84.8_	0.09 <u>1831</u>	··· - 10···-	Trest.
					•	• •	•
••		-					
	HOOF! C. 0305 C.						
	400EL CL8705		CIR 47 F		TR 34 2 CHOR	D BEND	514 21.
	D 3.11 L			٠			
	8j	<u>.</u> . cj	PHIJC	PSIJC	CJ/CJMAX		FREJUENCY
0.1876872E 04						•	***************************************
0.6529841E 03	-0.8529210E 02	0.6585310E 0	352.558	352,558	0.283020	1	1.189
-0.9388645E 03	-0.2350133E 03	0.9678315E 0		97.327	0.415949	ž	
-0.1014747E 04	0.4461230E 03	0-1108484E 04	156.268	52.089	0.415949	2 3	3.567
0.1855971E 03	-0.6790728E_03	0.7039788E_0	285.286	71.322		4	4.756_
-0.1366938E 04	-0.1882946E 04	0.2326802E 04	234.022	46.834	1.000000	5	5.945
0.1740939E 03	-0.5293024E C2	0.1819623E 0	343.089	57.181	1.000000	6	7-134
0.4895559E 03	0.6242158E 03		51.894	7.413	0.340936	ž	8.343
-0.1124139E 03	0.2136998E 03	0.2414632E 03	117.746	14.718	0.103775	8	9.512
-0.6131168E 02	-0.871367CE OI	0.6192778E 0	188.089	20.899	0.103775 0.026615	9	10.702
0.1527308E_03_	0-2927146E 03				0.141896		11.89L_
•	•	-					
			• •				
ARMONIC ANALYSIS	MODEL CL8705 SH	(IP 33 T 010	CTR 47 F	T 15.3	TR 38 2 CHOR	O HEND	STA 69
	AD = 0.279050E C		•••			5 50,10	
ERO POSITION USE	D 1.15 LG	AD/IN USED	16200.00				
AJ	81	CJ	PHI JC	PSIJC	CJ/CJMAX	J	FREQUESCY
0.1231280E 03				_			
0.297074ZE 03	0.42277116 02	0.3000674E 03					1.189
-0.5902927E 03	-0.1305789E 03	0.604563JE 01			0.427796	2	2.378
-0.6448911E 03	0.40364758 03	J.7607993E 03	147.957		0.538350	3	3.567
0.1370652E 03	-0.4618232E_03	0.4817339E 03	286.530	71.633			
-0.8785923E 03	-0.1106898E 04	0.1413205E 04				5	5.945
0.7523497E 02	-0.4474390E 02	0.8753464E 02		54.876	0.061941	•	7.134
0.3395278E 03	0.3564695E 03	0.492290JE 03					
-0.2875719E 01	0.1407870E 03	0.1408163E 03				8	9.512
-0.2915907E 02	0.5003050E 02	0.5790770E 02				9	10.702
	0.17217856 03	0.2151060E 03		13.359		10	11.491

Table III. (Continued)

EST 1	5	N -	6					,														
	1.5	ANAL		#0051	C+ 0705							CT0								26		
V ERAL	L C	AUT [C L D A	0 = (20566	IE Q	15 15				10	CIR ~	45		15-0		•		FL AP			43
ERO P	OS 1	T ION	USEO	1	9-51	r	CA D	/IN	USE	D		-26400	-00						•			
-0.6	A.	-	04		BJ				CJ			PH	IJC		PSIJO	;	CJ/C	JMA	K	J	F	KEQUENCY
		ILLE		-0.3	32 5766E	04	4	0.42	725	20E	04	306	. 885	. 3	808.88	5	0.30	732	5	1		1.166
0.2	329	776 E	04	0.9	584789E	04	i	0.98	638	75 E	04	76	. 338)	38.16		0.70		-	Ž		2.331
		950 E			B99367E			0.13					. 246		10.38		1.00			3		3.497
		216E			420012E			0.15					.887	,	86.72	2	0.10	8 43	7	4		4.664
		236E			042566E			0.12					-405		70.38		0.00	881	4	5		5.828
-0.2					C59861E			0.32					.836		23.47	3	0.02	346	l	6		6.993
-0.7					777257E			0.68					.901		13.70	0				7		8.159
-0.5					C2 94 74E			0.11					. 935		30.24		0.00			8		9.324
		213E			CZ 705 LE			0.12					. 147	,	34.01	.6	0.00	914	9	9		10.490
0.1	489	708 E	.03	0.1	23 601 3E	02		0.14	948	27E	03		. 743	<u></u>	0.47	4	0.01	075	Z	to		11.655
	•																					
 ADMON		ANA 1 1			CL8705	·····				·	• • • •											
					20176			3			10	CTR	75				. Ji	2 (FLAP	BENU		43
					3.75																	
•	Α.	j					•		ci			 PH	I JC		PSIJO		ČJ/C	J HÄ	(<u>;</u> -	F	REJUEYSY
-0.0	£4 F.	7 30 E	•																			
					508703E			0.53							303.23							L-166
		710E			220242E			0.97							35.58		0.74			2		2.331
		958E			221813E			0.13							08.80					3		3.497
		487E			799932E			0.13					- 246		83.63							4-662
-0.7					67686E			0.92				150	.272		30.05		0.00			-		5.848
0.7					32 3991E			0.27				122	.984		20.49		0.02	1230)	6		6.993
-0.1				0.0	22 97 85E C3 3 8 3 5E	02	5	0-11	203	415	03									7_		8.159
		947E			576139E			0.10					-872		11.98		0.00			8		9.324
0.1					505522E			0.16					-907		30.10		0.01			10		10.490
	#74			0.•.•	ع ع تا تا ت	_0¢_	'	U. I.	1 74	31 E	_6.5	<u>.</u>	ios ti		1.85		0.0,1	O'OT.	•	1.0_		lls655
<u>.</u> :	.													- · · · · · · · · · · · · · · · · · · ·								
RMON	IC A	ANAL 1	YSIS C LOA	MODEL	CL8705	\$ 76 0	HI P	3	3	T O	10	CTR	48	FLT	15.3	TR	11			BENO	STA	43
•					8.27			/IN	USE	0		-30400	.00						• •			* •
	A,	J			BJ				CJ			PH	JL I		PSIJC		CJ/C	JMA			F	KEJUEVCY
-0.6	492	851 E	_														•			_	•	,
		837E			84965E			0.57					.427	_ 3	07.42	7	0.47	2824		1	•	1.166
		347E			83449E			0.11				79	.867		39.93	3	0.90	1346	3	2		2.331
		eelE			54045E			0.12					.601		13.86		1.00			3		3.497
		741E			63970E			0.14							_4.37		0.11	8 90 j	١	•_		4.602
		637E			97920E			0.10					.039		3.80	₿	0.00			5		5.848
-0.Z					91377E			0.32				148	.377		24.73	0	0.02	6418	3	6		6.993
		8 8 5 E			06641E			0.90				99	. 131		12.73							8.159
-0 04		206E			26801E			95	4584	44 E	90		.812		23.72		0.00			8		9.324
			~~																			
0.14				-0.20	70549E 143956E	Q3		3.25	UUDI	ar c		334	- 103		33.78	9	0.02	U 4 / 8	,	9	,	10.490

Table III. (Continued)

TEST 15	N =	ō	(COHT	NUED)
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IARMONIC ANALYSI IVERALL CYCLIC L			HIP 33 TO: 4	10	CTR 48	FLT	15.3	TR	41	2 FLAP	BEND	STA	118
ERO POSITION US	ED 0.39	L	CAD/IN USED		-14150.00								
	BJ		CJ		PHIJC	٠.,	PSIJC		CJ/CJ1	4A.X	<u>-</u> j	··· F	KEJUENSY
-0.1932415E 04													
0.1073578E 04	-0.1924727E	04	0.2203893E	04	299.152	2 9	99.152	- (0.4630	041	1		1.166
0.1127864E 04	0.2931328E	04	0.3140822E	04	68.955	. :	34.478		0.6598		2		2.331
0.3866842E 04	-0.2775142E	04	0.4759609E	94	324.334	. 10	08.111		1.0000	200	3		3.497
0.4044741E 03	0.7510329E	02	0.4113877E	03	10.519		2.530		0.036		4		4.662
0.3312033E 02	-0.427879E	02	0.4106599E				64.751		0.0086		- · · ·		5.048
-0.1562008E 03	0.1074842E	03	0.1896089E				24.245		0.0398		. 6		درو و و و
0.1600202E D3	0.17221796	02	0.1609442E				0.878		0.0336		7		6.159
0.4832707E 02			0.2068893E				9.561		0.0434		ż		9.324
0.4819063E 02			0.8586447E				6.236		0.0180		٥		10.490
-0.8525314E 02			0.2504940E				10.770		0.0526		10		11.655

MARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 48 FLT 15.3 TR 34 2 CHORD BEND STA 21.

DV ERALL CYCLIC LDAD = C.718250E 04

ZERO POSITION	USED	3.11		LCAD/IN USED	-	20330.00		•		
	• · · ·	BJ				PHI JC	PSIJC	CJ/CJNAX		FREQUENCY
0.1887975E	04								_	
0.6660762E		-0.3185295E	03	0.7383215E	03	334.442	334.442	0.310068	1	1.100
-0.2002800E	04	-0.6615615E	03	0.2109235E	04	198.279	99.140	0.885803	2	2.331
-0.1397411E	-	0.5759084E			04	163.116	54.372	0.832741	3	3.497
0.5093879E		-0.2326033E	04	0.2381156E	04	292.352	70.588	1.000000	4	4-662
-0.2004151E	-	-0.1C77812E			04	238.271	41.654	0.955665	5	5.828
0.2097033E		-0.4182488E			03	276.628	49.438	0.196491	6	6.993
0.1790082E		0.32784626	03	0.1819855E	04	10.378	1.483	0.764274	7	8.159
-0.4592957E	03	0.1278023E	03	0.4767451E	03	154.450	20.556	0.200216	8	9.324
0.2107973E	03	0.5C86755E	02	0.2168479E	03	13.567	1.537	0.091668	9	10.490
0.2827248E	02_	0.1859748E	03	0.1881116E	03	91.356	8.136	0.079000	10	11.655

MARMONIC ANALYSIS ADDEL CL8705 SHIP 33 T 010 CTR 48 FLT 15.0 TR 38 2 CHORD BEND STA 69 VERALL CYCLIC LDAD = 0.465084E 04

ZERO POSITION US	SED	1.15	LCAD/I	N USED		16200.00				
AJ 0.8341850E 0	2	ВЈ		ÇĴ	-	PHIJC	PSIJC	CJ/CJMAX	J	FREJUENCY
0.3004792E 0		3757393E		028193E	03	7.128	7.128	G.200950	1	1.106
-0.1151309E 04	· -o.	5724473E	03 0.1	285771E	04	206.437	103.219	0.853235	2	2.331
-0.1314193E 04	. 0.	4740872E	03 0.1	397090E	04	150-163	53.388	0.927106	- 1	3.497
0.2420980E 0	3 -0.	1487363E	04 0.1	506937E	04	279.245	69.311	1.000000		4.664
-0.1299167E 04	· ^~~-o.	5068354E	03 0.1	394531E	04	201.312	40.262	0.925408		5.828
0.9747520E 0	2 -0.	3506328E		639294E	-	285.536	47.599	0.241503		6.993
0.1148539E 0	0.	4053369E		149253E		2.021	0.259	0.762642	ž	d. 159
-0.3251069E 0		1557592E		254797E		177.257	22.157	0.215988		
0.1594008E 0		3571619E		633532E		347.371	38.597	0.108401	•	9.324
9.8300671E 0		9115343E		232845E			4.768	0.081811_	10	10.490

Table III. (Continued)

ST 15 N = 7					<u>.</u>			
RHONIC ANALYSIS M	2051 (19705	SHIP 33	T 010	CT9 49	ELT 15 3	TR 6 1 F	I AO DEND	CTA 43
ERALL CYCLIC LOAD			, 010	CIR 49		1K 0 1F	LAP BENU	314 43
RO POSITION USED	9-51	LCAD/IN U	SED	-26400.00				
AJ -0.3297013E 04	BJ		:7	PHIJC	PSIJC	CJ/CJMAX		FREJUENCY
-0.1017230E 04	0.9613557E 0	3 0.130	9629E 04	136.61	B _ 136.618	0-210851		1.190
0.1992453E 04	0.2150682E 0		1775E 04					
	-0.2225505E 0		8004E 04					3.571
0.3287000E 03	0.19875188 0		1169E 03			0-057866		4.702
	-0.2862338E 0		5963E 02					>.952
-0.1837056E 03	0.3548247E 0	2 0.187	1009E 03	169.06	8 28.178	0.028186	6	7.143
-0.8129144E 02	-0.4871860E O		7234E 02					
-0.9731944E 02	-0.5762600E 0	1 0.974	8988E 02	183.38	9 22.924	0.014687		9.524
	-0.2200905E 0	3 0.224	2628E 03	3 258.93	28.770	0.033785	9	10.714
0.4824100E 02	-0.1267068E 0	30.1359	5795E_Q3	290.84	329.084	0.020425	10	11.905
·								
	3051 61 8745	CU10 33	T 010	670 40	F. T 16 0			
RMONIC ANALYSIS M ERALL CYCLIC LOAD			T 010	CIK 49	FLT 15.0	TR 31 2 F	LAP BEND	514 43
RO POSITION USED	3.75	LCAD/IN U		25900.00				
AJ -0.3497740E 04	BJ			PHIJC	PSIJC	CJ/CJMAX	J.	FREJUEVSY
	-0.6788655E 0	2 0.6740	0342E 03	195.78	185.780	0-103471	1	1.190
0.2144627E 04	0.2238576E 0		0104E 04			0.475898	2	4.381
	-0.2346191E 0		4215E 04	338.89	0 112.963	1.000000	3	3.571
0.3929839E 03	.O.164153CE_0		8901E 0:					4,702
0.9832600E 02	0.8631987E 0		9400E 03				-	5.952
-0.1291295E 03	0.28225888 0		1784E 03					7.143
-0.1588866E 03	0.5849809E 0		3132E 03					8.333
	-0.2873430E 0		2014E 0				-	9.524
	-0.1375344E 0		0721E 03					10.714
0.2004861E 02	-0.1C28942E 0	3 0.104	8292E 03	291.02	6 28.133	0.016092		11.205
		• •		**				· · · · · · · · · · · · · · · · · · ·
RMONIC ANALYSIS MI ERALL CYCLIC LOAD			T 010	CTR 49	FLT 15.0	TR 11 3 F	LAP BEND	STA 43
RO POSITION USED	8.27	LCAD/IN U	SED	-30400.00				
AJ -0.3577942E 04	BJ		: J	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.7857486E 02 ·	-0.5556255E 0	3 0.5611	538E 03	251.95	261.951	0.084203	1	1.190
0.9438931E 03	0.3579965E 0	4 0.3702	308E 04	75.22	37.515	0.555547	2	2.381
0 4E00144E 04	-0.5291909E 0	3 0.6664	258E 04	351.98	117.328			3.571
0.6599164E 04 -	0-2705154E 0		271E 03					4.702
0.4059517E 03	U+21U7L74E U					0.031150		5.952
	0.28858768 0	2 0.2075	1914E 03	7.99	L 1.598	0.036130	•	
0.4059517E 03 0.2055757E 03			5914E 03 1970E 03					7-143
0.4059517E 03 0.2055757E 03 -0.9333604E 02	0.2885876E 0	3 0.1600		234.33	39.056	0-024023	6	
0.4059517E 03 0.2055757E 03 -0.9333604E 02 0.7206535E 01	0.2885876E 0 0.1300748E 0	3 0.1600 3 0.1126	970E 03	234.336 273.666	39.056 39.395	0-024023 0-016901		8.333
0.4059517E 03 0.2055757E 03 -0.9333604E 02 0.7206535E 01 -0.1777317E 03	0.2885876E 0 0.1300748E 0 0.1123988E 0	3 0.1600 3 0.1126 2 0.1806	970E 03	234.336 273.666 190.256	39.056 39.395 323.782	0-024023 0-016901 0-027103		7.143 8.333 9.544 10.714

Table III. (Continued)

 ·							•		
TEST 15 N =	7 (CONTINUED)							
									<u></u>
HARMONIC ANAL OVERALL CYCLI				33 T 010	CTR 49	FLT 15.3	TR 41 2 FL	AP BEND	STA 118
ZERO POSITION	USED	0.39		/IN USED	-14150.00				
نرم					PHIJC	DLIZG	CJ/CJMAX	· · · · · · · · · · · · · · · · · · ·	FREQUENCY
-0.1261653E	. 04								
0.2103440E	03 -	-0.7119128E		0.7423372E 0					
0.8203008E		0.8748501E		0.1199273E 0				. 5	7-36T
0.2106965E		-0.966242 9 E		0.231879ZE 0	4 335.319	111.773	1.000000	3	3.571
0.1967064E		0.2167241E		0.2176149E 0		21.233	0.093848	•	4.762
0.1499469E		-0.27564938		0.1524595E 0			0.065750	. 5	2.426
-0.1654944E		-0.2664456E		0.1676255E 0				-	7.143
0.1157528		0.1131067E		0.1163041E 0					6.33
0.1403440E		0.1199168E		0.184598LE 0					9.524
0.3943213E		0.1218273E		0.1280499E 0					10.714
-0.1868 C45E		0.2698716E	دي_	0-2705173E_0	93.960		0.116663	4 4	
* * *									
HARMONIC ANAL OVERALL CYCLI				33 T 010	CTR 49	FLT 15.0	TR 34 2 CF	ORU BEND	STA 21.
ZERO POSITION	USED	3.11	LCAD	/IN USED	-20300.00	,			
Aj	·- · · · · · ·	BJ		C.1	PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
0.1805258E			_						
0.5301318E		-0.3389247E		0.5312141E 0					1.190.
-0.8690481E		-0.3773940E		0.9474548E 0				2	2.381
-0.7388308E		0.2404239E		0.7769651E 0				3	3.571
0.3504163E		-0.4105491E_		0.5397610E_0					4.762
-0.7898953E		-0.1653691E		0.2014970E 0					5.954
-0.2587629E	03	0.2543191E	03	0.3918953E 0			0.194492		7.143
0.2147751E	03	0.5E72568E	03	0.6252991E 0				7	8
-0.1021552E		0.3558320E		0.3702053E 0					9.524
0.8351295E		0.25784828		0-8740289E 0					10.714
0.1044627E		0.1765598E		0.2051483E_0	3 59.389	5,939	0.101812	1.0	11.905
•									*
MARMONIC ANAL OVERALL CYCLI				33 T 010	CTR 49	FLT 15.0	TR 38 2 CH	DRU BENJ	STA 69
	USED	1.15	LOAD	/IN USED	16200.00				•
ERO POSITION					DL 1H9	PSIJC	CJ/CJHAX	· ·	FKEJUE VS Y
ZERO POSITION AJ 0.3737209E	02	8.3		c 1	***************************************				
		8J 0.2032750E	02	CJ 0.2273427E 0			0.196553	1	1.190
AJ 0.3737209E	03				3 5.130	5.130		i .	2.361
AJ 0.3737209E 0.2264321E	03 03 03	0.2032750E -0.2284939E 0.1889671E	03 03	0.2273427E 0	3 5.130 3 205.838	5.130 102.919	0.453267		
AJ 0.3737209E 0.2264321E -0.4718584E -0.4674456E 0.2668394E	03 03 03 03	0.2032750E -0.2284939E	03 03	0.2273427E 0 0.5242708E 0	3 5.130 3 235.838 3 157.989	5.130 102.919 52.553	0.453267	2	2.301
AJ 0.3737209E 0.2264321E -0.4718584E -0.4674456E 0.2668394E -0.5571746E	03 03 03 03 03	0.2032750E -0.2284939E 0.1889671E	03 03 03 04	0.2273427E 0 0.5242708E 0 0.5041963E 0 0.3908816E 0 0.1156650E 0	3 5.130 3 235.838 3 157.989 3 313.052 4 241.203	5.130 102.717 52.553 78.263	0.453267 0.435911 0.337943	2	2.30L 3.57L
0.3737209E 0.2264321E -0.4718584E -0.4674456E 0.2668394E -0.5571746E	03 03 03 03 03 03	0.2032750E -0.2284939E 0.1889671E -0.2856313E -0.1013606E 0.1874710E	03 03 03 04 04	0.2273427E 0 0.5242708E 0 0.5041963E 0 0.3908816E 0	3 5.130 3 235.838 3 157.989 3 313.052 4 241.203	5.130 102.919 52.553 78.263 48.240	0.453267 0.435911 0.337943 1.000000	2 3 ———4	2.361 3.571 4.764 5.952 7.143
0.3737209E 0.2264321E -0.4718584E -0.4674456E 0.2668394E -0.5571746E -0.1713633E 0.2220318E	03 03 03 03 03 03	0.2032750E -0.2284939E 0.1889671E -0.2856313E -0.1013606E 0.1874710E 0.3526843E	03 03 03 04 03 03	0.2273427E 0 0.5242708E 0 0.5041963E 0 0.3908816E 0 0.1156650E 0 0.2539897E 0 0.4167544E 0	3 5.130 3 205.838 3 157.989 3 313.052 241.203 3 132.430 3 57.808	5.130 102.717 52.553 78.263 48.240 22.372 8.258	0.453267 0.435911 0.337943 1.000000 0.219591 0.360312	2 3 4 5	2.361 3.571 4.764 5.952 7.143
0.3737209E 0.2264321E -0.4718584E -0.4674456E 0.2668394E -0.5571746E -0.1713633E 0.2220318E	03 03 03 03 03 03 03	0.2032750E -0.2284939E 0.1889671E -0.2856313E -0.1C13606E 0.1874710E 0.3526843E 0.2C80675E	03 03 03 04 03 03 03	0.2273427E 0 0.5242708E 0 0.5041963E 0 0.3908816E 0 0.1156650E 0 0.2539897E 0 0.4167544E 0 0.2356678E 0	3 5.130 3 205.838 3 157.989 3 313.052 44 1.203 3 132.430 3 57.808	5.130 102.717 52.553 78.263 48.240 22.372 8.258	0.453267 0.435911 0.337943 1.000000 0.219591 0.360312	2 3 4 5 6	2.361 3.571 4.764 5.952 7.143
AJ 0.3737209E 0.2264321E -0.4718584E -0.4674456E 0.2668394E -0.5571746E -0.1713633E	03 03 03 03 03 03 03 03 03	0.2032750E -0.2284939E 0.189671E -0.2856313E -0.1013606E 0.1874710E 0.35268455E -0.2060675E	03 03 03 04 03 03 03 03	0.2273427E 0 0.5242708E 0 0.5041963E 0 0.3908816E 0 0.1156650E 0 0.2539897E 0 0.4167544E 0	3 5.130 205.83 157.989 3 313.052 4 241.203 3 132.430 3 118.008 2 315.206	5.130 102-919 52-563 78-263 48-240 22-972 8-258 14-751 35-923	0.453267 0.435911 0.337943 1.000000 0.219591 0.360312 0.203750	2 3 4 5 6 7	3.571 4.764 5.952 7.143 8.333

Table III. (Continued)

TEST 15 H - 8	l .								
MARMONEC ANALYSE DV ERALL CYCLIC L			23 T	010	CTR 50 F	LT 15.0	TR 6 1 FLAF	BEND S	STA 43
ERO POSITION .US			IN USED		-26400.00				
ÄJ	8J		CJ			PSIJC	CJ/CJMAX		FREQUENCY
-0.4255875E 04									
-0.1486547E 04					208.863			—-↓—	1.203
0.5425328E 04 0.5652234E 04			0.5995477			12.595			2.407
0.5397478E 03						106.321 2.843	1.000000		2.610
-0.5387564E 02			0.1101558	E 03	11.372	23.856		4	4.813 6.017
-0.1447784E 03			0.1509678			27.256		6	7.220
-0.1911042E 03			0.2062308			28.859	0.027142 _	7	8.424
-0.3733571E 02			0.3811417			23.950	0.005016	/ 8	9.627
0.5052470E 02			0.1591857			32.356	0.020950	Š	10.830
	0.6599837E		0.1768136				0.023270	•	
					•			•	
		•••							
HARMONIC ANALYSI DV ERALL CYCLIC L	S 40DEL CL8705 DAD_=0.10490	SHI P	23 T	010	CTR 50 FL	LT 15.0	TR 31 2 FLAP	BÉND S	T4 43
ERO POSITION US			/IN USED		25900.00				
		***********	CJ		PHI JC	PSIJC	CJ/CJMAX	-	FREGUENCY
-0.4051263E 04									
-0.1370568E 04		O4 _	0.1 809975	E 04	220.779	220.779	0.279542		
0.5396738E 04	0.1085707E	04	0.5504863	E 04	11.375	5.687	0.850199	2	2.407
0.4364516E 04			0.6474793			104.128	1.000000	3	. 3.610
0.4384819E_03			0.4882952			6.526			<u></u>
0.3191565E 02			0.2800183			16.691	0.043247	5	6.017
-0.5047656E 02			0.1 306555			18.798		6	7.220
-0.5459721E 02			0.1432199			16.058	0.022120	7	
-0.1704514E 02			0.2301170			27.776			9.627
-0-4602338E 02			0.4714557			18.608	0.007281	9	10.830
0.6112428E 02	-0.1722116E	. 03	0-18513 (2	EQ3_	289.542	28,954	0.028223		12.014
MARMONIC ANALYSI			33 Т	010	CTR 50 FL	LT L5.0	TR LL 3 FLAP	BEND S	T4 43
OVERALL CYCLIC L	JAD = 0.90105	6E 04							
ERO POSITION US		LCAD	/IN USED		-30400.00				
-0.3869695E 04			CJ		PHIJC	PSIJC		J	FREJUENCY
-0.1117977E 04					227.775	227.775		l	1.203
0.4201098E 04			0.4614477		24.437	12.218	0.744174	2	2.407
0.5359238E 04			0.6200805		329.801	109.934	1.000000	3	3.010
0.3426787E 03			0.7489932		62.773_		0.120790		6.813_
-0.2805437E 02 -0.1274782E 03			0.3816355		94.216	18.843	0.061546	5	0.017
-0.12/4/82E 03 -0.9669846E 02			0.2642661		118.841	19.837	0.042618	. 6	7.220
001007070E UE			0.1789181			17.531	0.028854	7	8.424
-0.70371905 AP			U 1 T V D D E V 1						
-0.7037190E 02			0.16088581		115.938	14.492		8	9.627
-0.7037190E 02 -0.8536925E 02 0.1072064E 03	-0.1056191E	03	0.16088581 0.13580611 0.16897001	E 03	231.052	25.572 25.938	0.021901	10	9.627 10.830 12.034

Table III (Continued)

TEST 15 N	- 8	(CONTINUED)) 									
		MODEL CL870			T 010	CTR	50	FLT 15.0	TR 41	2 FLAP	BEND	STA 118
		D 0.39			FD	-1419	0.00	•				
-					-							
LA"		8J		C	J		JL I H	PSIJC	CJ/	CĴMÄX		FREJUENCY
-0.140806	5E 04											
		-0.1103113							7 0.4	77542	. 1	1.203
0.190377		0.5220576					6.14		1 0.8	12810	2	2.407 3.010 4.013
0.145533		-0.1794251					9.046		5 1.0	00000	وَ	3.010
0.854086		0.281944	3E 03	0.2948			2.96		0 0.1	27643	🐓 .	4. 613
0.725602		0.1673856		0.7446			2.990		8 0.0	32233	5	6.017
-0.409043		-0.3524854					0.75		2 0-0	23372 21509 98639 54348	6	7.220
0.476333		0.1415381					6.549		4 C.O	21509	7	5.424
0.817624		0.2127081		0.2278			8.974		S 0.0	98639	6	9.627
0.450991		0.1171789					8.949		1 0.0	54348	9	10.830
-0.104736	2E_03_	0.3505609	SE 03	0.3658	721E 0	3 13	6.634	10.66	3 0-1	58368		12.034
*- *-				•			-			•		
		MODEL CL870			T 010	CTR	50	FLT 15.3	TR 34	2 CHOR	U BEND	ST4 24.
VERALL CYC	FIC TO	AD = 0.3181	173E	C 4				-				
-		D 3.11			_	_						
LA		8J.	-•	с	j	· · · · · · · · · · · ·	HLJC	PSIJC		CÜMAX	₋	FREQUENCY
0.185876	5E 04											
0.381154	3E 03	-0.1642550	SE 03	0.4150	403E 0	3 33	6.687	7 336.68	7 0.3	5 2 9 3 6	1	. 1.203
-0.975767	3E 03	0.1822316	SE 03	0.9926	379E 0	3 15	9.421	84.71	1 0.8	44106	2	2.407
-0.820042	0E 03	0.5529937	7E 03	0.9890	757E 0	3 16	6.006	48.66	9 0.8	41077	3	3.610
-0.527629	2E 01	0.6142314	€ 03	0.6142	542E 0	3 25	9.508	67.37	7 0.5	22341	- 4	4.813
-0.317101	6E 03	-0.1132404	E 04	0.1175	963E 0	4 25	4.356	50.87	1 1.0	00000	5	6.017
0.295958	3E 03	0.3061514	E 03	0.4258	167E 0	3 . 4	5.970	7.66	2 0.3	6 2 100	6	6.017 7.220 8.424
0.541608	6E 03	0.3970276	SE 03	0.6715	435E 0	3 3	6.243	5.17	8 0.5	71058	7	8.424 .
-0.298877	2E 03	-0.3623340	DE 02	0.3010	654E 0	3 19	6.912	23.35	4 0.2	56016	8	9.627
-0.438923	6E 02	-0.844980	5E 02	0.9521	794E 0	2 24	2.550	23.35	0.0	80970	9	10.830
0.170958	4E 03	0.3689783	3E. 03	0.4066	592E 0	35	5.149	6,51	40.3	45809	10	12.034
				.*								
	,											
ARMONIC AN	ALYSIS	MODEL CL870	5 S	SHIP 33	T OLO	CTR	50	FLT 15.0	TR 38	2 CHOR	U BEND	STA 69
		D 1.15			ΕD	1620	0.00		•			
LA												ENE WITHER
-0.241557	0F 02	BJ		C	7	•	JL IH	h211C	(3)	CJMAX	J	FREJUENCY
		0.7301828	BE 02	0.2371	606E 0	3 1	7.916	17.91	6 0.3	5 1 5 4 5	1	1.203
0 - 225 R 50		0.5245854		0.6126	023F 0	3 17	5.085	87.54	4 0.9	07300	ž	2.407
0.225850 -0.610352		0.3956548		0.6751		3 14	4.121	87.54 7 48.34 2 67.17	2 1.0	00000	3	
-0.610352					4 03 E 0	2 24	. 701	47 17	6 0.5	90558	4	4 413
-0.610352 -0.547122			SE 03	0.4987	THE P		0.704					
-0.610352 -0.547122 -0.903064	6E 01	-0.3586379		0.3987		3 24	9.023	49.83	5 0-9	81805	<u>;</u>	6.017
-0.610352 -0.547122 -0.933064 -0.237319	6E 01	-0.3986379	2E 03	0.6629	077E 0	73 27	3.05	77.00	5 0.9	81805 45723	5	6.017 7.220
-0.610352 -0.547122 -0.903064 -0.237319 0.216035	6E 01 0E 03 5E 03	-0.3986379	2E 03	0.6629	977E 0	3 4	4.123	7.35	5 0.9 4 0.4 5 0.6	81805 45723 72021	5 6 7	6.UL7 7.220 8.424
-0.610352 -0.547122 -0.903064 -0.237319 0.216035 0.403585	6E 01 0E 03 5E 03	-0.3586379 -0.6189727 0.2095207	2E 03 2E 03 2E 03	0.6629 0.3009 0.4537	977E 0	3 (4.123	7.35 3.86	5 0.9 4 0.4 5 0.6	81805 45723 72021 _	5 6 7	6.017 7.220 6.424 9.627
-0.610352 -0.547122 -0.903064 -0.237319 0.216035	6E 01 0E 03 5E 03 6E 03	-0.3986379	2E 03 7E 03 2E 03 2E 02	0.6629 0.3009 0.4537 0.2426	077E 0 490E 0 434E 0 368E 0	3 4 3 2 3 L8	4.123	7.35 3.88 2 23.54	5 0.9 4 0.4 5 0.6 8 0.3	8 1805 45723 72021 59359	5 6 7 8	6.017 7.220 6.424 9.627 10.830

Table III. (Continued)

					•						
	HARMONIC ANAL	V516	MODEL CL 9705						70 4 151		74 / 3
	OV ERALL CYCL	CLDA	D = 0.17329	6E 0	,	010	CIN SE	C1 [5.5	IK B I FL	AP BEND S	
	ZERO POSITION	USED	9.51	L	AD/IN USED)	-26400.00				
	AJ -0.5467406E		BJ		ĊJ		PHI JC	PSIJC	CJ/CJMAX	J	FREQUENCY
	-0.1098673E		-0.3413399E	04	0.358585	7F 04	252.158	252.158	0.373414	ı	1-200
	0.73738058	04	0.4257227E		0.851451			15.000	0.886661	2	2.401
	0.67568408		-0.6823543E		0.960289	5E 04	314.719	104.736		3	3.601
	0.82730936		-0.5575940E	02	0.829186	3E 03	356.144		0.086348	4	4-002_
	-0.4651898E		0.85664498		0.974803			23.701	0.010151	5	6-002
	-0.2466453E 0.3984613E		0.1940562E 0.2119585E		0.313833					é	7-203
	-0.64911356				0.451328				0.004700	,	8.403
	0.51188358				0.105206			33.235	0.007100	•	9.604 10.804
			0.2504575E						0.016503	10	12.005
•	· · · · · ·										
	HARMONIC ANAL		MINDEL CLASOS	 Ch	10 33 T		CTD 51 5	17 15 2	TR 31 2 FL		Ta 45
	OV ERALL CYCL I				. 33 1	010	CIR SEP				
	LERO POSITION		=		AD/IN USED						
	LA.		BJ		c.i		PHI JC	PSTJC	CJ/CJMÄX -		FREQUENCY
	-0.5785953E	04							307 00 7 mm	•	
	-0.8326721E	03	-0.3594772E	04	0.408063	1E 04	258.226	258.226	0.423537		1-200
	0.7493973E	04	0.4071535E	04	0.852859	8E 04	28.516	14.258	0.885201	2	2.401
	0.6421781E		-0.7182418E	04	0.963464	5E 04	311.800	103.933	1.000000	3	3.601
	0.7643545E		-0.1723102E		0.783535			86.824	0.081325	4	4-802
			0.1517624E		0.206428				0.021426	5	6.002
	-0.1375233E		0.2183029E		0.258009		122.210	20.368	0.026779	6	7.203
	-0.4130783E		0.7394639E				169.851			7	8.+03 _
	-0.1371252E		-0.6760362E		0.152884				0.015868	8	9.604
	-0.7664192E		-0.7597340E		0.110768						10.804
-	U.2538884E	0.3	-0.8224707E	_oz	0.266877	9E_03	342,050	34.205	_0.027700_	10	12.005
		.:		<u>.</u>					man na na na Salamana na makan na na sakan na na sakan na na sakan na na sakan na na sakan na na sakan na na s	an Bankeren pande a ber	
	HARMONIC ANAL OVERALL CYCLI	YSIS (NODEL CL8705 D = 0.15237	SH 3F 05	IP _. 33 T	010	CTR 51 F	LŤ 15.0	TR 11 3 FL/	AP BEND S	TA 43
	ZERO POSITION				AD/IN USED		-30400.00				
-	AJ		ВЈ		c J		PHI JC	PSTJC	CJ/CJMAX		FREJUEYCY
	-0.5658535E		A 484544 =				1				-
	-0.3133684E 0.6515668E		-0.4568426E		0.4579160			266.076	0.503820	_	r-500 "
	0.7396531E		0.5708480E -0.5281969E		0.866260			20.511	0.953098	2	2.401
	0.86657548		0.12857006	0.3	0.908888		324.469 8.439	108.156	1.000000	3	3.601
	-0.2055259E		0.20134906		0.287719		135.588	27.118	0.096388 0.031656		
	-0.5370094E		0.42677846		0.685943		141.525	23.587		·5	6-002 7-203
	-0.7433745E		0.162 9915E		0.761033		157.633	23.948			
	-0.7237500E		-0.1065348E		0.128793		235.810	29.476			, 0.403 9.604
	0.4251431E		-0.1137090E		0.121396		290.500	32.278			10.804
_			-0.1143003E		0.246906	E 03	332.424	33.242	0.027166	10	12.005

Table III (Continued)

TEST	15	N -	9	(CONTINUED)

-0.1554122E 04 -0.1161680E 04

-0.8163867E 03 -0.1614271E 04

-0.2872141E 03

0.1341462E 04 0.1849605E 03 0.3383205E 01

-0.2109702E 02

HARMONIC ANALYSIS ! DV ERALL CYCLIC LDAI		SH1 E 04	P 33 T 0	10	CTR 51 FL	.T 15.0	TR 41 2 FLAS	BEND	5TA 118
ERO POSITION USED	0.39	LCA	D/IN USED		-14150.00				
AJ -0.1780191E 04	ВЈ		c1	-	PHI JC	JUISA	CJ/CJMAX	· J	FREGUENS
0.9197916E 02	-0.1839430E	04	0.1841729E	04	272.863	272.963	0.539211	1	1.20
0.2376043E 04	0.13667786	04	0.2741106E			14.754		2	2.40
0.2066307E 04	-0.271 9684E	04	0.3415597E	04				3	3.60
0.1680677E 03	0.1136263E	03	0.2028736E	03				4	4. 00
0.20217916 02	-0.3431645E	02	0.3982942E	02				5	6.00
-0.8508815E 02	0.2527286E	02	0.8876208E	02			0.025987	6	7.20
0.9535046E 02	-0.2493365E	02	0.9855655E	02	345.345	49.335		7	8.40
-0.3083911E 02	0.2CL9028E	03	0.2042444E	03	98.684		0.059798	ä	9.00
-0.4029602E 02	0.1601598E	03	0.1651512E	03	134.123	11.569	0.048352	9	
-0.2884626E 03	0.2071563E	03	0.3551399E	03	144.316	14.432	0.103976	10	12.00
ARMONIC ANALYSIS	ODEL CL8705	SHI	Р 33 ТО	10	CTR 51 FL	T 15.0	TR 34 2 CHOR	 ID BEND	STA 21.
VERALL CYCLIC LDAG	0.648945	E 04							
ERO POSITION USED	3.11	LOA	D/IN USED		-20300.00				,
AJ 0.2047933E 04	BJ		C.J.		PHIJC	PSIJC	CJ/CJMAX		FREJUENCI
	-0.2478977E	03	0-5302246E	03	332.125	332.125	0.201256	1	1.20
-0.1554122E 04	0.1174145E	03	0.15585516	04	175.679	87.840	0.591575	2	2.40
-0.1161680F 04	0 . 824 799RF	03	0.1424700E	04	164 636	40 200	0.540773	2	3 -01

87.840 48.208 59.714

46.443

0.971

4-113

40.383

175.679 144.625

238.856 232.213 225.648 6.796

320.661

37.016

93.133

0.591575 0.540773

0.599145

1.000000 0.155946

0.512778

0.090774

0.001608

9-313 0-146541.

3.001

4. 802 6.002 7.203 8.403 9.604

10.804

12.005

HARMONIC ANALYSIS HODEL CL8705 33 T 010 CTR 51 FLT 15.0 TR 38 2 CHORD BEND STA 69 SHI P OVERALL CYCLIC LOAD = 0.447486E 04

0-15302246E 03 0-1558551E 04 0-1424709E 04 0-1578494E 04 0-2634579E 04 0-4108521E 03 0-1350953E 04

0.2391505E 03 0.4237111E 01 0.3860747E 03

0.1174145E 03 0.8247998E 03 -0.1350983E 04 -0.2082099E 04

-0.2937815E 03

0.1598596E 03

-0.1516000E 03 0.2550889E 01

0.3654980E 03

ZEKU PUSTITUM	0350	1.15	FOUNTIN OPED	16200.00				
LA.		BJ	C.J.	PHIJC	PSTJC	CJ/CJMAX	-	FREQUENCY
0.1325864E	03			•			_	
0.15087876	03	0.2624652E	02 0.1531445E	03 9.86	9.858	0.100277	1	1.200
-0.9756267E	03	-0.3286268E	01 0.9756321E	03 180.19	3 90.376	0.638830	2	2.401
-0.7095285E	03	0.7162319E	03 0.1008176E	04 134.73	44.910	0.660139	3	3.601
-0.5327253E	03	-0.9C62000E	03 0.1051187E	04 239.55	59.888	0.688302	4	
-0.1061482E	04	-0.1098021E	04 0.1527218E	04 225.96	45.194	1.000000	5	6.002
-0.1552873E	03	-0.1630858E	03 0.2251913E	03 226.40	3 37.734	0.147452	6	7.203
0.8506445E	03	-0.3862292E	02 0.8515206E	03 357.400	51.057	0.557563	7	8.403
0.5324695E	02	-0.5898047E	02 0.7946024E	02 312.07	39,009	0.052029	8	9.604
0.21124898	02	-0.2904846E	02 0.3591759E	02 336.020	34.333	0.023518	9	10.404
0.1663040E	03	0.3549929E	03 0.3920166E	03 64.89	6.470		ΙŬ	14.005

Table III. (Continued)

TEST 15 N = 10	1					· . · · ·
HARMONIC ANALYSIS			10 CTR 52 FI	LT 15.0	TR 6 1 FLAS	BEND STA 43
DVERALL CYCLIC LOA	ID = 0.757916	E 04	-			
ZERO POSITION USED		LUAD/IN USED				
AJ	6.7	C1	PHIJC	PSIJC	CJ/CJMAX	J FREQUENCY
-0.1621639E 04 -0.2601116E 04	0.3588335E	04 0.4431926E	04 125.938	125.938	1.000000	1 1.200
0.1406970E 04	-0.1761081E	04 0.2254101E		154.311	0.508605	1 1.200 2 2.401
0.1707661E U4	-0.1906347E			104.279	0.586600	3 3.601
0.1436191E 03	0.35280408			16.962		4 4.802
0.63e3864E 02	0.1584891E		03 68.070	13.614	0.036550	5 6.002
-0.1321465E 03	-0.47761+6E			30.345		
-0.1120696E 03	-0.50740185			26.085		
-0.5164381E 02	-0.14903d4E				0.012172	
-0.1357709E 03	-0.9618587E			23.924		
0.3147484E 01	-0.1748397E	03 0-1748680E	03 271.031			
HARMONIC ANALYSIS	MODEL CL8705	SHIP 33 T O	10 CTR 52 Ft	LT 15-0	TR 31 2 FLAG	P HEND STA 43
OVERALL CYCLIC LOA	ID = 0.639060					52.15 61.4 15
	-			•		
AJ	6j	CJ	PHIJC	PSIJC	CJ/CJMAX T	J FREQUENCY
-0.1490602E 04	0.31471445	04 0.3893644E	04 126.321	124 921		
-0.2306250E 04		0.38936445	04 120.321	126.321		
0.334052/E 03	-0.1924134£			139.924		2 2.401
0.1604373E 04	-0.1269461E			107.216	0.525436	3 3.601
0.9569806E 02	0.52841486			19.928	0.137929	4 4.802
0.22737966 02	0.3359663E			17.226		5 6.002
-0.1509553E 03	0.13801915	0.20454042		22.927	0.052532	6 7.203
-0.1056145E 03	0.1825415E	02 J.1071803E		24.313	0.027527	7 8.403
0.00042825 02	0.12333025	0.10121205		8.306	0.042960	8 9.604
-0.8628770E 02	-0.6457632E			24.090	0.027680	9 10.804
-0.1305947E 02	-0.162857UE	03 0.1033797E	03 265.415	26,542	0.041961	10 12.005
HARMONIC ANALYSIS	MODEL CL8705	SH1P 33 T 0		LT 15.0	TR 11 3 FLAF	P BEND STA 43
OVERALL CYCLIC LOS						
ZERO POSITION USED	8.27	LUAD/IN USED	•			· ·
	BJ	CJ	PHIJC	PSIJC	CJ/CJMAX	J FREQUETCY
-0.1732628E 04				:		
-0.1471241E 04	0.2586574E			119.631		1.200 _
0.43184408 03	0.1817675E			11.413	0.137918	2 2.401
0.2985090E 04	-0.1621844E		04 331.484	110.495	1.000000	3 3.601
J. 1734929E 03	0.5423311E		03 /2.260	18.065	0.167609	4.802
-0.6979297E-02-	0.2984185		03 103.164	20,633	0.090212	5 6.002
-0.3636391E 02	0.2662695E			24.206	0.013746	6 7.203
-0.1229112E 03	-0.1000935E			26.432	0.036320	7 8.403
	-0.3360200E	0.70291006	02 238.614	26.017	0.020691	8 9.604
-0.6170610E 02						
-0.6173616E 02 -0.6076079E 02 0.1756645E 01	0.1270754E	02 0.6207539E	02 168.187	18.687	0.018272 0.054856	9 10.804 10 12.005

Table III. (Continued)

TEST 15 N = 10	(CONTINUED)						
HARMONIC ANALYSI			CTR 52 FI	LT 15.0	TR 41 2 FLAF	BEND S	STA 118
ZERO POSITION US	ED 0.39	LUAD/IN USED	-14150.00	•		,	
	La		PHIJC	—PSIJC —	CJ/CJMAX		FREQUENCY
-0.9041318E 03			FRISC	F3136	CJ/CJ/MA	•	LVEADEURI
-0.1333198E 03		02 0.1371113E 0.	3 193.506	193.506	0.238498	1	1.200
0.3104883E 03					U. 788574	ž	2.401
0.3977737E 03	-0.4150671E	U3 U.5748953E 0	3 313.781	104.594		3	3.601
-U. 3846121E 02				24.790		. •	4.802
0.53431648 02				10,794	0.158006	2	0.002
-0.2433284E 02	-0.5420214E			40.976	U.103473	6	7.203
0.8454399E 02				47,562		. 7	8.403
0.11373416 03				6.596	0.326988	9	9.604
0.6159993E 02 -0.8433003E 01				4.500	0.140917	10.	10.804
-0.04330035 01	0.21433416	03 0.2746641E 0) ' '''' à r • () ja ^{''} '	A.T.D	_ 0.477764	10	
HARMONIC ANALYSIS			CTR 52 FL	.T 15.0	TR 34 2 CHOR	O BEND	STA 21.
ZERO POSITION USI	ED 3.11	LOAD/IN USED	-20300.00			•	•
	8.3	c1	PHIJC	PSIJC	CJ/CJMAX	j	FREQUENCY
0.1633602E 04 0.6945376E 03	-0.2150195E	03 0.7270596E 03	342.798	342.798	0.449252	1 .	. 1 200
-0.1803246E 03	-0.1013593E	02 0.1806093E 03	183.217	91.609	0.111599	2	1.200 2.401
-0.5451118E 03	0.24802988			51.845	0.370054	3	
-0.1200533E 03	-0.82581925					.	
0.6482109E 03	-0.1482892E		293.611	58.722	1.000000	5	6.002
. 0.3562656E 03	0.17746UJE			4.413	0.245936	5	7.203
0.88980248 02	0.1360609E			8.117	0.100454		8.403
-0.6635963E 02	0.203462ZE	03 0.2140105E 03	108.064	13.508	0.132238	8	9.604
0.3275945E 02	-0.8667317E		2 . 290.705	32.301	0.057253		10.804
0.1658219E 03	0.4807513E	02 0.1726503E 03	16.168	1.617	0.106681	10	12.005
MARMONIC ANALYSIS		SHIP 33 T 010	CTR 52 FL	.T 15.0	TR 38 2 CHOR	D BEND	STA 69
ERO POSITION USE	0 1.15	LOAD/IN USED	16200.00				•
-0.7380359E 02	BJ	cı	OLIHA	PSIJC	CJ/CJMAX	<u> </u>	FREQUENCY
0. 3422 605E 03		02 0.3522051E 03	346.352	346.352	0.350745	1 <	1.200
0.14/0450E 03	0.2752821E			84.698	0.148979	2	2.401
-0.3043022E 03	0.1857648E			49.533		3	3.601
-0.4111652E 02	-0.8589511E			47.950	0.041830		4.802
0.33651325 03	-0.9460990E			57,916	1.000000	5	6.002
0.2512747E 03	0.710400dE			2,631	0.260041	6	7.203
0.7501656E U2	0.6929231E			6.100	0.101757	7	8.403
-0.533+580E UL	0.176+018E			11.467	0.175751	. 8	9.604
-0.6122873E 02 0.1139716E 03	-0.4593295E	-		24.097 2.542	0.076225 0.125667	9 10	10.604

Table III. (Continued)

TEST 15 N = 11							
HARHONIC ANALYSIS	MODEL CLOZOS CO	410 22 7 010	C70 53 51		7 0 4 1 5 4	0.0540	
OVERALL CYCLIC LO			CIK 33 PI	13.0	IN D 1 PLA	P BENU :) A 43
ZERO POSITION USE			26400.00				
	BJ	ch	"PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
-0.1332054E 04 -0.2518347E 04	0.4471398E 04	0 51310005 04	110 300	110 300	1-000000	•	1 202
-0.10606508 04			244 577	1170307	0.481435		1.203 2.407
	0.1370540č 04						3.610
			65.715				
0.2820220E 03	0.6250522c 03	0.685730/E 03				. •	4.813
0.8316177E 02	U. 3198770E U3	0.3305105E 03			0.004404	5	6.017
-0.8184727E 02	0.345580dE 05				0.017686	•	7.220
-0.3053711E 02	0.3644728E 02	0.49098978 02		18.351	0.009568	7	8.424
-0.5104321E 02	0.23155122 02	U.5604970E 02				8	9.627
-0.5416255E 02					U.010621	9	10.830
0.2320050E 02	-0.170055>£ 03	_ 0. 1716425E 03	277.797	27.780	0.033447	10	12.034
							•
							
HARMONIC ANALYSIS	MODEL CL8705 S	11P 33 T 010	CTR 53 FI	LT 15.0	TR 31 2 FLA	P BEND S	STA 43
DAFKATT CACTIC TO	AD = 0.751598E 04	•					•
ZERO POSITION USE		DAD/IN USED	25900.00	-			
			PHIJC	PSIJC	CJ/CJHAX		FREQUENCY
-0.12560Z1E 04							
-0.1854300E 04	0.3717948E 04	0.4154703E 04	116.507	116.507	1-000000	1	1.203
-0.8757666E 03	-0.1429844E 04	0.1676729E 04				2	2.407
0.2815063E 04	0.1286835E 04	0.3095241E 04	24.566	8.189	0.744997	3	3.610
0.3002610E 03	0.77337576 03	0.8296184E 03	68.781	17.105	0-190492	4	4.813
-0.3144231E 02	0 • 4041 05 5E 03	0.4053267E 03	94.449	18.890	U-097558	5	
-0.1516642E 03	0.12502935 03	J. 1965562E 03	140.498	23.416	0-047309	6	7.220
	0.1287607E 03	0.1681879¢ 03				7	8.424
-0.3065295E 02	0.5061195E 02	0.04377916 02	130-042 118-434	16 904	4.015405	Š	9.627
-0.4714465E 02	0.9098177E 02				0.023473	9	
0.7131226E 01	-0.3293945E 02						10.830
0.113155gE 01	-0.36337735 08	0.3370255E 02	202.210	28.222	0.008112	10	12.034
** * *			•				
HARMONIC ANALYSIS Dverall cyclic Ld	MODEL CL8705 SH AD = 0.717072E 04	11P 33 T 010	CTR 53 FL	LT 15.0	TR 11 3 FLA	P BEND S	STA 43
ZERO POSITION USE	8.27 LC	AD/IN USED -	30400.00		•		
AJ.	ВЈ	CJ	PHIJC	PSIJC	CJ/CJMAX	- j -	FREQUETCY
-0.1075503E 04							
-0.1617719E 04			114.678	114.678	1.000000	1	1.203
-0.5257881E 03	-0.1204267E 04	0.1314044E 04	246.414	123-207	0.339146	2	2.407
0.2465621E 04	0.1602003E U4	0.2940357E 04	33.013	11.004	0.758886	3	3.610
ALLIBRAISE OF	0-83876815 03		81.936			<u>,</u>	4.813
-0.8162611E 01	U. 4779268E 03	0.4779963E 03	90.979	18.196	0.123368		6.017
-0.1283648E 03	0.15384326 03	0.2003788E 03			0.051716	ĩ	7.220
-0.1669964E 03	-0.6192491E OU	0.1669973E 03	180.212		0-043101	7	8.424
	0.36330756 00	0.54694306 02	179.632		0.015404		0.14
-0.3791208E 02	0.1253702E 03	0.13097728 03	106.825	11.869	0.051716 0.043101 0.015408 0.033804	9	9.627
	AATESTICE AS	00 1 30 7 1 1 6 6 0 3	10000Z3	114504	U. VJJ 6U 9	•	10.830
-0.815290JE 01	-0.1641692E 03	0.1643715E 03	267-157	26.716	0.042423		12.034

Table III. (Continued)

TEST 15	N - 11	(CONTINUED)						
		MD051 6: (:70)						-
		MDDEL CL6705 AD = 0.197626		10 CTK 53	FLT 15.0	TR 41 2 FLA	AP BEND STA 11	3
ERO POSIT	ION USE	D 0.39	LOAD/IN USED	-14150.00			•	
AJ		BJ	<u>cı</u>	PHIJC	PSIJC	CJ/CJHAX	J FRE	UENCY
-0.765957 -0.799597		0.1871664E (0.2035309E	03 113.133	113.133	0.195231	1.5	1.203
-0.88352		-0.1652778E					2.	2.407
. 0. 94924		0.4310220E					3	3.610
0.11112		0.35142946				0.353549	-	4.813
0.66501		0.1528483E						6.017
-0.44388		-0-18531256				0.046140		7.220
0.11319		0.1160475E				0.104580		8.424
0.10431	52E 03	0.9845300£ (9.627
0.87879		0.1339579E					9	0.830
-0-11244	62E 03	0.2242818E		03 116.627			10	2.034
						•		
ARMONIC AN	NALYSIS	MODEL CL8705	SHIP 33 T 01	LO CTR 53	FLT 15.0	TR 34 2 CHG	RD BEND STA 21	•
VERALL LY	rite rii	AD_ = _ 0.3055716	. 04	•				
ERO POSITI	ION USE	3.11	LUAD/IN USED			*		
. AJ		8,1	C)	PHIJC	PSIJC	XAHL3\L3	J FREC	UENCY
0.161740	DIE 04			•		•	* 3. E	
0.708002	20E 03_	0.1975397E_0	3 0.7350432E	03 344-410		0.523204	1. 1	1.203
-0.175861	18E 03	-0.2616467E 0	3 0.3152559E		118.047		2.	2.407
~0.601074	40E 03	-0.1357665E (3 0.6162161E.			0.438623	5. 3	3.610
-0.215188	81E 02	0.6802121E 0	2 0.7134383E	02 107.555	26.889	0.050783	~# 4 \$10.77 a.s.	4.813
0.150711		-0.1396780£ C	4 0.1404887E	04 276.158		1.000000	5	6.017
0.538864		0.2598369E 0				0.425827	6'	7.220
0.314559		0.1532606E 0		03 25.976		0.249065	7	8.424
-0.231372	tof A3	-0.20916846 0				0.222014	8 7 7 4	9.627
-0.157676		-0.1076718E 0					9.	
0.138460	07E 03	0.1330105E 0	3 0.1919978E	03 43.850	4.385	0•136664	101	2.034
•		•		•			•	
		MODEL CL8705 AD = 0.2287716		10 CTR 53	FLT 15.0	TR 38 2 CHO	RD BEND STA 69	
ERO POSITI			LUAD/IN USED	16200.00				•
AJ		8,1		PHIJC	PSIJC	CJ/CJHAX	J FREC	UENCY
-0.515457	18E 02			-	· · · ·			
0.338155	3E 03	0.1236350E · 0	2 0.3383811E	03 2.094	2.094	0.441382	1 1 1 1 1 1 1 1 1 1	1:203
0.335816		-0.12793126 0	3 0.1279753E	03 271.504	135.752	0.166930	2	2.407
-0.390564		-0.4496854E 0			62.189	0.512816	3	3.610
_ 0.33725		0.21/3717E 0				0.052337		4.813
-0. 326914		-0.7659424E 0				1.000000	5	6.017
0.294859		0-12831806 0	· · · · · -			0.419455		7.220
	IZE DZ	0.1268511E 0	3 0.2886729E	03 26.067	3.724	0.376543	7	8.424
0.259308								
0.259308 -0.184159	8E 03	-0.5753617£ 0	2 0. 1929386E	03 197.350	24.669	0.251668		9.627
0.259308	HE 03		2 0.1929386E 2 0.6503383E	03 197.350 02 252.458	24.669 28.051		9 5 5 7	

Table III. (Continued)

TEST 16 N = 1	•	<u>.</u>							<u></u>
MARMONIC ANALYSIS		5HTP 5 04					TP 5 1 FLAP	BEND	STA 43
ZEPO POSITION USE	9.51	LCAD/I	N USED		-26400.00				
AJ	9 J		Cl		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
-0.12285165 04 -0.1479184F 04	0.10907915	04 0.	1831964	E 04	143.846	143.846	0.501495	1	0.554
0.14504725 04	0.1403974F		2018566				0.552604	2	1.108
0.67870615 02	-0.12142555		1216151				0.332919	3	1.662
0.1351225€ 04	-C.14394115		1973534				0.540250	4	2.216
-0.2590597F 04	-0.25°55285		3653003		225.055		1.000000	5	2.770
-0.20049455 0+	0.194534CF		2793561		135.662		0.754730	6 7	3.324
-0.4591717E 03	-0.74507355 -0.20784165		46,4210,0 31,8775,1		199.236 220.693		0.127076 0.097264		3.878
-0.2417012E 03 -0.6581456F 02	-0-1224174E		1369877				0.038048	Ğ	4.986
0.56685595 02	-0.11971235		132454 9				0.036259	10	5.540
									· · · · · · · · · · · · · · · · · · ·
HARMONIC ANALYSIS DVERALL CYCLIC LO		SHI P = 04	33 T	010	CTR 56	FLT 16.0	TR 31 2 FLAP	BEND	STA 43
ZERO POSITION USE	D 3.75	LCAD/I	N LSFD	,	25900.00				
ĀJ	вЈ		CJ		PHIJC	PSIJC	CJ/SJMAX	J	FREQUENCY
-0.21197495 04								_	
-0.1188447E 04	0.4366CO1E		1266106				0.367271	- 1 2	0.554
0.1705754E 04 -0.5217852E 03	0.1714907E -0.1208141E		241878 1 131600 3				0.701639 0.381746	3	1.108
0.1745087E 04	-0.16946F9F		2425572		316.009		0.703609	4	2.216
-0.3220071E 04	-0.12309-45		344733 (200.020		1.000000	- 5	2.770
-0.1449746E 04	0.2318337E		273430 9	-	122.019		0.793167	6	3.324
-0.3196965E 03	-0.1469539E		3519540		204.687		0.102066	7	3.878
-0.1467892E 03	-0.20751 31E		2541874		234.726		0.073735	8	4.432
0.10829298 03	-0.84536245		137373E	E 03	322.021	35.780	0.039849	9	4.986
0.1847318E 02	-0.4182999E	02 0.	4572751	E 02	293.627	29.383	0.013265	10	5.540
			_						
HARMONIC ANALYSIS		SHIP = U4	33 T	010	CTR 56	FLT 16.0	TR 11 3 FLAP	BEND	STA 43
7ERO POSITION USE	8.27	LCAD/I	N USED		-30400.00				
AJ -0.1264559E 04	91		Cl		PHÍJC	DLIZG	KAPUSTUS	J	FREQUENCY
-0.11722555 04	0.44851465		125512 9		159.063		0.401818	1_	0.554
0.1664653F 04	0.15072705		24562 C		42.159			<u>z</u>	1.108
-0.32690535 03	-0.1098777E		114637		253.431	84.477	0.367001	3	1.662
0.13961066 04	-0.1758165E		2238846		308.251	77.063	0.716745		2.216
-0.2678316E 04	-0.16073918		312362 (210.973		1.000000	5	2.770
-0.1716301F 04	0.16525045		2382532		136.085	22.081	0.762745	6 '	3.324
0.41734035_03_	-0.28700P5E		5065044		214.517	30.645	0.162153	7	3.878_
-0.21352759 03 0.6250384E 02	-0.42764365 -0.2349061F		4779885 2431052		243.466 284.923	30.433 31.558	0.153023 0.077828	9	4.432
0.5712668F 02	-0.1297458E		2431UJ2 140853		293.927	29.393		10	4.586 5.540
0.3/14000 02	-0.17314585	U5 U.	1-0823:	<u> </u>	243 6521	24.343	0.045093	10	5.540

Table III. (Continued)

TEST	16	M =	1	(CONT	NUED)
				U.UNI	NUEDA

HARMONIC ANAL' GVERALL CYCLIC				IP 33 T	010	CTR 56	FLT 16.0	TR 41 2 FLA	P BEND	STA 118
ZFRO POSITION	USED	0.39	LC.	AD/IN USEC		-14150.00				
, LA		BJ		CJ		PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.7195947E		-0 5/451275	22	0 6/47163	e	263.434	268.436	0.429360	٠,	0.554
-0.1486165E		-0.5445127E								1.108
0.5334785E		0.5159773E		0.7457825					2	
-0.2615581E		-0.19942275		0.3287104					3	1.662
0.54722228		-0.47014775		0.7214504					4	2.216
-0.1174224E	04	-0.42918975	03	0.126856 7	E 04	199.725	39.945	1.000000	5	2.770
-0.4957456E	03	U. 95520:55	03	0.1071615	E 1/4	116.954	19.+92	0.841682	6	3.374
-0.15560338	0.3	-0.8762337F	02	0.2145152	5 03	204.109	29.158	0.169087	7	3. 278
-0.4C43825E	02	-0.5785055E	02	0.7061172	E 02			0.055658		4.432
0.79951728		-0.7586995E		0.110147 8					ç	4.986
0.1056901F		-0.6073771E	-	0.6166762					10	5.540

HARMON IC ANALY				-	5HIP 34	33	T	010	CT R	<u></u>	FLT	16.0	TR	34	2	CHORD	BEND	STA	21.
ZERO POSITION	USED		3.11		CAD/IA	us	EC		- 20 300	.00									
AJ			BJ			c	J		PI	+IJC		PSIJC		CJ /C	JYZ	X	J	FI	EQUENCY
0.8139849E	03																		
0.63461995	03	-0:1	995380E	03	0.6	649	50	SF 03	34 2	2 . 62	В	342.628		1.00	000	00	1		0.554
-0.3702144F	03	-0.4	8031 98E	03	0.6	064	37	CE 03	23	2.37	<u> </u>	116.188		0.91	200	3	2		1.108
-0.3C78609E	03	0.2	788396E	03	0.4	153	56	SE 03	137	.83	2	45.744		0.62	465	8	3		. 1.662
-0.12740545	03	0.2	9012305	03	0.3	169	55	ZE 03	113	.70	9	28.427		0.47	652	24	4		2.216
0.511-1726	03	-0.2	413419E	.03	0.5	- 59	55	IE 03	334	. 75	9	66.952	_	U. 85	117	23.	-5		2.770
.0.3451042E	03	-0.2	062295F	03	0.4	020	28	EE 03	329	. 13	8	54.856		0.60	459	9	6		3.324
-0.39938175	02	0.1	559534E	03	0.1	609	85	1E 03	104	. 36	4	14.909		0.24	210	2	7		3.878
0.1893436E	03	-0.2	453435E	03	0.3	099	10	4E 03		.65		38.457		0.46			8		4.432
0.1245820E	03	-0.1	274705E	03	0.1	782	39	7E 03		. 34		34.927		0.25			ç		4. 986
-0.2246013E			8938505					1E 03		.00	-	17.901		0.33			10		5.540

TARMONIC ANALY			705 0938F	SH1 P 04	33	T	010	CTR	56	FLT	16.0	TR 3	8 2	CHORD	BEND	STA	69
ZERO POSITION	USED	1.1	5	LCAD/	'IN US	ED		16 200	.00	,							
LA		BJ				: J		PH	1 JC		PSIJC	ĊJ.	/CJM/	A X	J	FR	EQUENCY
-0.82627695																•	
0.30510055		-0.68079	04F 0	20	.3126	03 (EE_03	347	.421	l;	347.421	0.1	3353	65	1		0.554
-0.1869415F	03	-0.32417	21E 0	3 0	.3742	:12	2E 03	240	.029) ;	120.013	1.0	0000	00	2		1.108
-0.1528713E	03	0.14182	255 0	3 0	. 2085	26 4	4E 03	137	. 147		45.716	0.5	5572	41	3		1.602
-0.1070729E	03	0.16663	015 0	3 . 0	. 1991	61	1E 03	123	. 207	, , <i>,</i>	30.802	0.	5322	14	- 4		2.216
0.2820166F	03	-0.63995	27E 0	2 0	. 26 91	86	E 03	347	.215		69.443	0.	1727	88	-5		2.770
0.2361307E	03	-0.17939	59E 01	3 0	. 2965	48	E 03	322	.775	i	53.796	0.	7924	60	6		3.324
-0.2375253E	01	0.12519	36E 0	3 . 0	. 1252	21	1E 03	91	.087	,	13-012	0.	3346	26	7		3.878
0.6298962E	02	-0.14579	90E 0	3 0	. 2056	81	E 03	287	.833		35.979	0.5	5495	39	- 8		4.432
0.431999F	01	-0.91773	36E 0	? 0	9187	46	E 02		-695		30 - 299		2455		ç	: '	4.986
-0.7463557E	02 .	0.53033	25E 02	_	.9155				-604		14.460		2446		10		5.540

Table III. (Continued)

TEST 16 M = 2

HARMON IC ANALYSIS	MODEL C19705	SHIP 33 T 010	CT 0 59 E	T 16.0	TR 6 1 FLAT	9 8 5 8 7	EA ATS
DAESAFF CACFIL FOR						JENU	31A 43
ZEPO POSITION USED	9.51	LC4D/IN LSED	-26400.00				
AJ	ВЈ	CJ	PHIJC	PSIJC	CJ/CJMAX	J	FREQUENCY
0.4994692E 03						_	
-0.2829156F_04_	0.34693805 0			129.195	1.000000	1	0.654
0.4975132E 03	-0.681570bF 0			152.768	0.187187	2	1.30
0.1225742E 04	-0.1093257E U		354.900	113.300	0.274994	7	1.962
0.1229977E 04	-L.21637935 C		299.595	74.,893	0.555869		2.616
C.5998547F 03	-0.358F052E U			65.823	0.156137	5	3.270
-0.76565595 02	0.1503504E 0		117.031	19.505	0.037929	é	3. 924
-0.1545184E_02_	0.7237114E_0			14.579	0.016531		4.578
-0.7713193F 02	-0.5847574E 0		217.167	27.145	0.021621	8	5.232
-0.9564192E 02 0.2573983E 01	-0.8574207E 0			24.858	0.027709 0.008197	9 10	5. 886
0027739B3E 01	0030003742 0	0.30074342 02	034710	8.598	0.000177		6.540
ARMONIC ANALYSIS		· · · · · ·	CTR 58 Fi	T 16.0	TR 31 2 FLAF	BEND	STA 43
ERO POSITION USED		LCAD/IN USEC	25 900 . 00				
AJ .	8.J	CJ	PHIJC	PSIJC	CJ/CJ4AX	J	FREQUENCY
-0.88703275 03							
0.2C03774E_04	0.198837E_0			135.300	1.000000	1	0.654
0.87969215 03	0.31108798 0		19.475	9.738	0.330003	2	1.308
0.47226075 03	-0.5914C16E 0		308.609	102.870	0.267668	3	1.962
0.21347935 04	-0.1214909E 0		330.356	82.589	0.958718	4	2.616
0.7094A34F 03	-0.43750755 0		307.115	61.423	0.415800	5	3.270
-0.513C427E 03	0.64933548 0		172.787	29,795	0.192896	6	3.924
-0.9545741E 02	-0.1630973F 0		239.658	34.237	0.056834	7	4.576
-0.5059308E 02	-0.6653852F 0		232.752	29.094	0.029563	8	5.232
-0.1301785E 02	-0.27709575 0		244.836	27.204	0.010828	9	5.866
-0.4593762E 02	-0.77289+95 0	20.899106 €E 02	239 • 275	23.927	0.031799	10	6.540
ARMONIC ANALYSIS		SHIP 33 T 010	CTR 58 FL	T 16.0	TR 11 3 FLAP	BEND	STA 43
ERO POSITION USED	8.27	LCAD/IN USED	-30400.00				
AJ -0.10543035 02	BJ	Cl	PHIJC	PSIJC	CJ/CJ4AX	7	FREQUENCY
-0.216970E 04_	0.17818505 0	4 0.290757 1E 04	140.605	140.605	1.000000	1	0. 654
0.91227155 03	0.1375070E 0		8.694	4.347	0.328717	2	1.308
0.41589625 03	-0.4299722E C			104.682	0.213065	3	1.962
0.18483355 04	-0.1602172E 0		319.077	79.769	0.871153	4	2.616
0.9993333E 03	-0.6C370/0E 0		328.963	65.773	0.415851	5	3.270
-0.1561432F 03	0.23139715 0		124.011	20.669	0.099428	é	3. 924
-0.41454595 02_	-0.3734156E 0		227.012	31.716	0.019872		4.578
0.39151186 02	0.6181836E 0		57.653	7.207	0.026063	8	5.232
-0.421CE57E 02	0.35272725 0		140.048	15.561	0.017565	9	5.886
- 4046706315 05	0.000			471701			

Table III. (Continued)

TEST	16	N =	2	(CONT)	INVED)

HAPMON IS ANALY			SHIP 33 T	010	CT P 58	FLT 16.0	TR 41 2 F	LAP REND	STA 118
ERO POSITION	USED	0.39	LCAD/IN USED		-14150.00				
LA		. BJ	CJ		PHIJC	PSIJC	CAPLINES	J	FREQUENCY
-0.3313369E				45 0		200 1/2	0.232945		0.654
-0.1636034E		0.5007530E							and the state of t
0.37125125		0.215603RE 3							1.308
-0.16261505	02 -	0.59426535 (2 0.616113	7E 02	2 254.696	34.899	0.092348	3	1. 552
0.65155915	03 -	0.3677551E C	3 0.749179	7E 03	330.559	92.540	1.000000) 4	2.616
0.2555404E	03 -	U.3782813E U	3 0.456505	SE 0	304.043	60.808	0.61015:	5	3.270
-0.14802855	03	0.55795495 0	2 0.159191	2F 0	159.351	26.558	0.211439	. 6	3.924
0.2882730E		0.1075275E 0	3 0.107565	2F 0	3 271.536	35.791	0.143770	7	4.578
-0.6105932E		0.24938028 0					0.086153	8	5.232
0.33012776		6.39941-55 0					0.069259		5. 886
-0.1325975E		0.1140604E 0							6.540

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 58 FLT 16.0 TR 34 2 CHORD BEND STA 21.

OVERALL CYCLIC LOAD = 0.2047645 04

ZERO POSITION	used	3.11	1	LCAD/IN USED	-	20 300 . 00				
AJ		ВЈ		CJ		PHIJC	PSIJC	XAPLOLLO	 j	FREQUENCY
0.8995710E										
0.7763784E	03	-0.2164371E	03	0.805982 5 E	03	344.423	344.423	1.000000	1	0.654
-0.2987437E	03	-0.1479251E	03	0.333351 1E	03	206.343	103.171	0.413608	2	1.308
-0.30291196	03	0.2558949E	03	0.396532 CE	03	139.809	46.603	0.491986	3	1.962
0.33451765	03	0.67385255	02	0.341237 1E	03	168.611	42.153	0.423380	4	2.616
0.2169743E	03	0.2255032E	03	0.313009CE	03	46.117	9.223	0.398357	5	3.270
0.5142457E	02	-0.7005804E	U2	0.9347701E	02	303.379	50.563	0.115979	5	3.924
0.2562238E	02	0.6607743F	01	0.264605 SE	02	14.461	2.066	0.032830	7	4.578
0.2136452E	03	0.19553395	03	0.2896165E	03	42.466	5.308	0.359333	8	5.232
0.19488546	02 -	0.26088o5E	03	0.261540 EE	03	85.946	9.550	0.324499	5	5.886
0.2420631E		0.32662998		0.406548 E	03	53.458	5.346	0.504413	10	6.540

HARMONIC ANALYSIS MODEL CL8705 SHIP 33 T 010 CTR 58 FLT 16.0 TR 38 2 CHORD BEND STA 69 OVERALL CYCLIC LOAD = 0.143236F 34

ZERO POSITION	USED	1.15	LCA	D/IN USED		16 200 .00				*
LA		8.1	•	ÇJ		PHIJC	PSIJC	CJ/CJ4AX	<u> </u>	FREQUE NCY
-0.694068RE									_	
0.35106645	03 _	-0.9857774E	02	_0.364643 {E	03	344.315	_ 344.315_	1.000000	1	0.654
-0.1131466F	03	-0.97692 98E	02	0.149496 CE	03	508.055	110.404	0.409951	2	1.308
-0.11580695	03	0.1362318E	03	0.1789025E	03	130.367	43.456	0.490348	3 .	1.962
-0.18706145	03	0.33943255	02	0.190116 CE	03	169.715	42.429	0.521375	4	2.616
0.101742GE	Q3	0.1245422E	C3	0.150817 EE	03	50.753	10.151	0.441027	5	3.270
0.3921576E	92	-0.6139194E	02	0.729395 EE	02	302.574	50.429	0.199756	6	3. 924
. 0.4229413F	02	0.6949374E	01 .	0.4286125E	02	9.331	1.333 .	0.117543	7	4.578
0.1445707E	03	0.1152751E	03	0.1849034E	03	38.568	4.821	0.507080		5.232
0.262536UE	2 C	0.16619458	03	0.1682554E	03	81.023	9,003	0.461424	9	5.884
0.1935227E	03	0.1836079E	03	0.2667637E	03	43.494	4,349	0.731573	10	6.540

Table III. (Continued)

_TE4T 16 N =	3						
	VSIS MODEL CL8705 SH C LOAD, # C-E07C76E C4		CTR 59 FL	T 16.0 1	R 6 1 FLAF	BEND S	STA 43
ZERO POSETION	USED 5.51 LC	AD/IN LSEC	-26400.00				
AJ 0.38414C6E	BJ	CJ	PHIJC	PSIJC	CJ/CJPAX	J	FREJUENCY
-0.3325139E		0.5391457E 04	128-079	120.079	1.000000		0.662
-0.1193532E		0.1424321E 04		132.596	0.264181	Ž	1.345
0.1615 # E6E		0.1622826E 04		118.195	0.300595	3	1.967
0.5249315E		0.2205947E 04	283.766	76.942	C.405156	· · · · · · · · · · · · · · · · · · ·	2.649
0.8152559E	03 0.25963188 03	C.8686118E 03	20.179	4.036	C-161109	. 5	3.311
-0.6505414E		C.3905042E 03	99.587	16.598	C.072449	6	3.974
-0.8778C27E		0.1333663E J3	131.162	16.737	C.024737	7	4.636
-0.1472232E		0.1474410E 03	176.885	22.111	C-027247	8	5.298
-0.5174310E	02 0.5174728E 02	0.7753769E 02	131.861	14.651	C.014382	9	5.960
-0.2747859E	C2 0.3316850E 02	0.4307260E 02	129.640	12.964		10	6.623
HARMONIC ANALY	YSIS MODEL CLB7C5 SH	IP 33 T 010	CTR 59 FL	T 16.0 1	R 31 2 FLAF	BEND S	STA 43
	C LOAD = 0.506425E C4						
ZERC POSITION	USED3.75 LC	AD/IN LSED	25900.00		*** * ** * * * * * * * * * * * * * * * *		
AJ	BJ	CJ	DHIJC	PSIJC	CJ/CJPAX	ن	FREQUENCY
0.1208544E	02					_	
-0.2442521E		0.3729878E 04			1-000000	1	0.662
-0.11149C7E		0.5820444E 03		125.478	C-156C49	2	1.325
0.1013689E		C.1277627E 04		_ 107-502 _			1.987
0.1104527E		0.1252077E 04		82.976	0.335688	•	2.649
0.10827616			345.500	65-100	C-255E45	5	3.311
-0.2254363E	·	0.2825574E 03	142-925	23.821	C-075755	<u> </u>	2.974
0.9556119E		0.1338805E 03	315.543	45.078	C-035E94	7	4.636
-0.9737651E	02 -0.7230951E 02	0-1212883E 03	216-597		C-032518	8	5.298
-0.2689546E		0.7047681E 02		27.507_		9	5.960
0.2997 € 70€	02 -0.1146484E 02	0.3209618E 02	339.071	33.907	C-008605	10	6.623
							. •
HARMONIC ANALY	VSIS MODEL CL8705' SH	10 33 T 010	CTR 50 FI	T 16.0 T	. B 11 3 E1 AC	AEND S	TA 43
	LOAD = C.589696E C4					52.15	
ZERO PUSITION	UȘED <u>8.27</u> LC	AD/IN_LSED	-30400-00				
AJ	8J	CJ	PHIJC	PSIJC	CJ/CJFAX	J	FREQUENCY
0.4473610E		'a inarese	134 645				# 15 Line 1
-0.2366569E		0.3923222E 04				1	0-662
-0.1657883E		0.10939268 04		130.641	0.278808	2	1.325
0.1320417E		C-1407923E 04					1.987_
0.1238450E		0.2032474E 04		76.985		4	2.649
0.3815723E		0.3864304E 03	9.095	1.819	0.098498	5	3.311
-0.1416353E		0.14225408 03		30.891	G.036259	0 .	3.974
0.1415C44E		0.1415936E 03		51.138	C-036C91	7 8	4.636
-0.3619923E -0.9454074E		0.4608548E 02 0.3529875E 02		17.721	C-011747 C-00E597	ě	5.498
0.15387868				ZE.274		10-	5.960_
0.1330(CDE	02 -0.265515CE 02	0.3068823E 02	300 a UYT	30.009	0.007622	TO	6.623

Table III. (Continued)

TEST 16 N = 3	(CONTINUED)						
HARMONIC ANALYSIS			CTR 59 F	LT 16.0	TR 41 2 FLA	P BEND :	STA 118
ZERO POSTTION USED		٠.	-14150-00				
AJ	BJ	C1	PHIJC	PSIJC	XAHLONLO	J	FREQUENCY
-0.27159C1E 03		A 202444 BE A1	151 044	151 044	C-876C92		U-662
-0.3463447E C3 0.3509564E O1	0.1645916E 03 -0.544469CE 02	0.37240400 03	772 600	136.844		2	0.662 1.325
	-0.1716398E 03			105.338	C-851714		1.987
0.3280C34E 03	-0.1492548E 03			02 003	C 904437	4	2.049
0.4131452E C3	-0.1731664E 03 .			67.452	1.000C00 C.234323	5	2.049 3.311 3.974 4.636
-0.7112E19E 02	0.7715775E 02			22.109	C-234323	6	3.974
0.3462350E 02	-0.1316185E C3	0.1360963E 03	284.738	40.677	C.303E05 C.051799	7	4.636
-0.1046224E C1	-0.231E065E 02	- 0.2320428E 02	267.416		C-051799	8	5.298
· 0.3798631E 02_	0.7504111E 02	0.5447171E 02	45.785		_ C-121596	9	5.960
0.4539450E C2	-039C8E2E 01.	0.4552097E (2	355.728	35.573	C-101616	10	0.623
	•						
The second secon			•				
HARMONIC ANALYSIS OVERALL CYCLIC LOA			CTR 59 F	LT 16.0	TR 34 2 CHO	RD BEND	STA 21.
ZERO POSITION USEC), , <u>, 3•11</u> , L(AD/IN LSED	-20300.00				<u> </u>
AJ 0.45168538 C3	BJ				CJ/CJMAX		
0.6481621E 03	-0.2331419E 03	0.6888171E 03	340.216	34C.216	1-000000	1	0.662
-0.2708694E 03	-0.2331415E 03 -0.1666761E 03 0.1163456E 03	0.3301042E 03	214.859	107-430	C.475233	2	1.325
-0.2807C58E 03	0.116345EE 03	0.3038618E 03	157.487	52.496	C-441136		1.987
-U.2559520E C3	-0.15251716 01	0.25599656 03	180.342	4:.086	C-3/164/	4	2.049
0.3965256E 02	0.143E622E 03	0.1492268E 03	74.590	14.918	C-216642	>	3.311
0.9357E17E 02	0.5524434E 01	C.9406161E 02	354.188	55.031	0.436555	9	3.974
-0.1377723E 03 -0.4894238E 03		0.1377726E 03	167 720	51.413 18.465	C-20CC13 C-840433	á	5.298
_ :0.1353271E_C3	0.3891689E 03 -0.4650771E 03	0.51040406 03	253.776	28.197	C.703185		
-0.63145C2F 02	0.8127077E 02	0.10291866 03	127.846	12.785	C-145413	10	6.623
00002 17022 06	000200000	:					
<u> </u>							
HARMONIC ANALYSIS OVERALL CYCLIC LOA			CTR 59 F	LT 16.0	TR 38 2 CHO	RD BEND	STA 69
ZERO POSITION USED) 1.15 LO	AD/IN USED	16200.00		•		
LA	BJ	CJ				J	
-0.7672747E 03		·					0.662
	-0.6330072E 02		348-464		C-919135		
-0.7370C20E 02	-0.4683893E 02	0.8732469E 02		106.219	0.253573	2	1.325
-0.1534:065 03	0.1423094E 03	_ 0.2092823E 03	200.274	45.719	C-607714	3	1.987
-0.1309735E 03 -0.4130556E 02	-0.4636017E 02	0.1396234E 03 0.1346109E 03		50.068 21.574	C.405438 C.35CE83	4 .	2.649 3.311
0.11661275 02		0.1472272E 02					3.974
0.3104C66E 02	-0.1C32267E 03	0.1077927E 03		4C.962	0.313008	7	3.974 4.636
-0.2631256E C3		0.3443765E 03		17 478	1 000000	ŭ	5.298
	-0.3C75968E 03			30.125	C.894:32	9	
-0.5080259E 02	0.4532156E 02	0.7674924E 02	140.011	14.001	0.222864	9	0.023
		٠,	•				

Table III. (Continued)

TEST 16 N =						,		
	SIS MODEL CL870		33 T 010	CT0 40 EI		To 4 1 61 A	D DEMIS	STA 42
	: LOAD = C. 8152		33 1 010	CIK OU F	. 10.0		PBENU	31A 43
ZERC POSITION	USED 9.51	LCAD	/IN LSED	-26400.00				
A.J	BJ		CJ	PHIJC	DLIZA	CJ/CJMAX	J	FREQUENCY
0.7765C12E								
-0.3769283E			0.5553820E 04				ļ	
-0.7654C92E			0.2435513E 04		125.842	C-43E:29	2	1.305
0.1970153E			0-1970746E 04		C-453	G-354645	3	1.958
0.6820449E			0.1755762E 04		73.215	C-316136	2	2.611
-0-25646C9E			0.3959048E 03		26.075	C-071285	5	3.264
-0.50807C3E			G.5311372E 03		27.175 34.150	C-095635	7	3.916
-0.1363254E			0.2689807E 03	239.052	34.150	C.048432		4.509
-0.295J4C9E	02 -0.571 [434	E UZ	0.6434702E 02	294 012	30.339 32.768		9	5.222
0.5361C55E		E 03	0.1272723E 03 0.9780319E 02		32.329	C.017610	10	5.87 <u>5</u> 6.527
0.78409336	02 -0.50 5692	E UZ	0.97803196 02	323.243	32.327	C.0(1610	10	5.721
	SIS MODEL CL870		33 T 010	CTR 60 F	LT 16.0	TR 31 2 FLA	P BEND	STA 43
JA FRALL CACLI	: LOAD = C.6953	25E C4						
ERO POSITION	USED 3.75	LCAD	/IN USED	25900.00				
AJ	BJ		CJ	PHIJC	PSIJC	XA4LJ\L3	J	FREQUENCY
0.5768276E			0.5009430E 04					
-0.3461182E							1	0.653
-0.7597771E		E 04	0.2165054E 04		124.728			1.505
0.18699395	04 -0.1348485	E 03	0.1874790E 04	322.872	116.045		3	1.958
0.87375C5E -0.1859556E			0.1469768E 04		76.619		4 5	2.611
			0.2960981E 03		18.720		_	3.264
	03 0.2447207	E 03	0.5201772E 03	121.430	25.323	. C 046120	6	3.916
-0.1098616E	03 -0.1575758	E 03	0.2260659E 03	240.924	34.418	C-045128	ģ	4.569 5.222
-0.9767552E	02 -0.5936978	E UZ	0.00440326 02	210.049	21.202	C 031(63	. 9	
-0.1163723E	01 -0.7594156	E 02	0.8844032E 02 0.1056155E 03 0.7595044E 02	269.122	26.912	C-015161	10	5.8 <u>75</u> 6.527
						***************************************	•	***************************************
	*******			` <u>-</u>				
HARMONIC ANAL	SIS MODEL CL870	S SEID	33 T 010	CTR 60 F	1 16.D	TR 11 2 FLA	P BEND	STA 43
	LOAD = C. 7217							
	USED 8.27	LCAD	VIN USED	-30400:00	-			
revol Sost i tou	BJ		CJ	PHIJC	PSIJC	CJ/CJPAX	J	FREQUENCY
AJ				- ,				
	03		0 44487595 NA	135.153			1	0.653
AJ 0.7725725E -0.3293781E	04 0.3276288					C.44EE74	2	1.305
AJ 0.7725725E -0.3293781E -0.3885469E	04 0.3276288	F 04	0-2065358E 04	259.262	125.631		_	
AJ 0.7725725E -0.3293781E -0.3885469E 0.17907C4E	04 0.3276288 03 -0.2(48842 04 0.5(3107)	E 04	0.2065358E 04 0.1790711E 04	0.161	0.054	C.385451	3	1.958
AJ 0.7725725E -0.3293761E -0.3885469E 0.17907C4E 0.1205230E	04 0.3276288 03 -0.2648842 04 0.5631076 04 -0.1724443	E 04 E 01 E 04	0.2065358E 04 0.1790711E 04 0.2103873E 04	0.161 304.950	0.054 76.237	C.385451 C.452859	4	2.611
AJ 047725725E -043293781E -043885469E 041295230E -048442664E	04	E 04 E 01 E 04 E 02	0.2065358E 04 0.1790711E 04 0.2103973E 04 0.9769472E 02	0-161 304-950 149-790	0.054 76.237 29.958	C.385451 C.452659 C.021C29	4 5	2.611 3.204
AJ 0.7725725E -0.3293781E -0.3885469E 0.17907C4E 0.1205230E -0.8642664E -0.3257371E	04	E 04 E 01 E 04 E 02 E 03	0.2065358E 04 0.1790711E 04 0.2103973E 04 0.976947ZE 02 0.4465303E 03	0-161 304-950 149-790 136-843	0.054 76.237 29.958 22.807	C.385451 C.452659 C.021C29 C.096116	5	2.611 3.204 3.916
AJ 0.7725725E -0.3293781E -0.3885469E 0.17907C4E 0.1205230E -0.8442664E -0.3257371E -0.51917C7E	04 0.3276286 03 -0.2(46842 04 0.5(3)076 04 -0.1724443 02 0.451565 03 0.3(5425 02 -0.1606177	E 04 E 01 E 04 E 02 E 03	0.2065358E 04 0.1790711E 04 0.2103873E 04 0.9769472E 02 0.4465303E 03 0.5434485E 02	0.161 304.950 149.790 136.843 197.191	0.054 76.237 29.958 22.807 28.170	C.385451 C.452859 C.021C29 C.098116 C.011898	4 5 6 7	2.611 3.204 3.916 4.509
0.7725725E -0.3293781E -0.3885469E 0.1790704E 0.1205230E -0.8442644E -0.3257371E -0.5191707E	04 0.3276286 03 -0.2(48842 04 0.5(31070 04 -0.1724443 02 0.4(1565) 03 0.3(5425) 02 -0.160617 02 -0.477(94)	E 04 E 01 E 04 E 02 E 03 E 02 E 02	0.2065358E 04 0.1790711E 04 0.2103873E 04 0.9769472E 02 0.4465303E 03 0.5434485E 02 0.8121700E 02	0.161 304.950 149.790 136.843 197.191	0.054 76.237 29.958 22.837 28.170 26.1997	C.385451 C.452659 C.021C29 C.096116 C.011698 C.017482	4 5 6 7	3.204 3.916 4.569 5.222
AJ 0.7725725E -0.3293781E -0.3885469E 0.17907C4E 0.1205230E -0.8442664E -0.3257371E -0.51917C7E	04	E 04 E 01 E 04 E 02 E 03 E 02 E 02 E 02	0.2065358E 04 0.1790711E 04 0.2103873E 04 0.9769472E 02 0.4465303E 03 0.5434485E 02	0.161 304.950 149.790 136.843 197.191 215.975	0.054 76.237 29.958 22.837 28.170 26.1997	C.385451 C.452859 C.021C29 C.098116 C.011898	4 5 6 7	2.611 3.204 3.916 4.509

Table III. (Continued)

TEST	16	N =	4	CON	TINUED										•			
								33	TO	10	CTR	60	FLT	16.0	TR 41	2 FL	AP BEND	STA 118
					C. 1471		•											
ZERC	POSI	TION	USE	D .	0-39		L CAD /	IN LS	EC		-14150	-00						. ,
_		J			BJ			c	J		PI	1I JC		PSIJC	CJ/	CJMAX	J	FREQUENCY
-0	. 1798	34C0E	02	^	2666226	E 03		4042	2155	. 03	146	440				00000		0.653
-0	112	1216 16346	03	-0-	2222516 4222516	E 03	0	4484	204 6	: 03	25 (7004 201	1	23 450	1.0	56201		1.405
-0	4111	1249E	03	-0.	3902754	E 03	Õ	-4131	7436	03	354	. 583		16.193	C 6	03172	2	1.958
		479E			3545265			.4448			29	416		74.354	C - 6	50122		2.611
		833E			6739078			. 6795			8	. 603	,	16.521	C.C	99305	4 5	3.264
-0	.1371	358E	03	0.	1142758	E 03	0	.1785	1136	03	140	. 196	ı	23.366	(. Z	60859	6	3.916
-0	.3765	651E	C2	-ò.	5614914	E 02	0	-1032	609E	03				35.516		50895	7	
-0	.4652	? 44E	01	-0.	5124338	E 02	0	-5145	4198	: 0z	264	. 812	:	32-101	C.0	75190	8	5.222
0	.3897	7227E	_02_	0.	2691786	E. C2	0	.4736	464 E	02	32 !	. 367	·	36.152	C-0	65214	9	5. 675
0	-1652	2220E	02	-0.	3985272	E 02	0	.4314	189E	02	29 2	2.518	ı	29.252	C-0	63(43	10	6.527
ADM	ONTE	ANAI	vete	MODE			 .	. 22	T 0		CTD	40	E 1 T	16.0	,, : TO 34	3 CL	08 1) 85N1	D STA 21.
					C. 2709					,,,		00		10.0		2 01	UKD BENT	JIN 210
ERO	POSI	TION	USE	D ,	3.11	(LCAD/	IN LS	ED		-20300	.00						
		J			BJ			c	J		PH	JL II		PSIJC	CJ/	CJPAX	J	FREGUENCY
· Q.	.5239	167E	03	_									_					
. 0	-8124	130E	03	-0.	2195286	E 03	0	.8620	11 40 E	. 03	341	.078	3	41.078	1.0	00400	Ť	0.653
-0.	4000	3775	02	0-1	6048177	5 02	0	• T T D 4	4036	. 03	140	941	•	55.661	0-1	34250 77309_	2	1.305 1.95 <u>B</u>
-0	. 1265	303E	-03	3.	9267192 8605446	E 02		1541	8706	03	14!	174	·——	36.293		78E67		2.611
		866E			3617953									66.016		23179	5	3.264
		433E			3737756		. 0	-4393	AAAF	02	301	1710		50.285	0.0	50969		3.916
		EETE			3465725		: 0	-3603	115E	03	254	. 127	,	36.304	C . 4	17586		4.569
0.	.4700	564E	03	0.	2443345	E 03	0	.5826	829E	03	36	- 224		4.528	C.6	75951	8	5.222
0.	.7629	255E	03	-0.	242 CO41	E 02	. 0	.7633	093 E	03	181	-817		20.202	C.8	85490	. 9	5.875
0	. 3218	313E	03	0.	3765547	E 03	0	.4953	472E	03	49	.480		4.948	0.5	74636		
-												٠.		-				
							-											•
					C. 1709			33	TO	10	CTR	60	FLT	16.0	TR 38	2 CH	DRU BENI	D. STA 69
ERO.	POSĮ	TION	USE	D	1.15		LEAD/	IN_LS	EO		16200	.00_	·					
0		J 476E	03		81		•	c	J.		Pł	I JC		PSIJC	CJA	CJHAX	J	FREQUENCY
		259E			1.232630	E U3	- ^	.3720	1375	60	220	- 000	2	36_000	Δ.70	96395	1.2	0.653
		157E			1010762						76	- 561		35.281		20766	. ;	1.305
		542E			£ 7049C4			.2311				.879			C.4			1.958
		261E			5846332			.6732			119	. 726		29.932	C.1	44122		2.611
		460E			2815097			.4538				.668		64.334		97167		3.264
		354E			231 C429			.7373			34 1	.740	2	56.957	C-1	57853	6	3.916
0.			0.2		2196064			.2266	374E	-03	255	.691		36.527	0.4	A 4 1 7 A	7	4.509
0.	.5601																	
0 -0	.5601 .3002	EZZE	03	0.1	1575648	E 03	٥	.3594	456E	03	3 3	- 342		4.168		65490	. 8	5.442
0 -0 -0	•5601 •3002 •4586	EZZE	03	0.1		E 03	, 0	.3594	456E 218E	03	10,	. 342			_ 1.00		9	5.422 5.875

Table III. (Continued)

TEST 16 N = 5	•	<u>. </u>					
HARMONIC ANALYSIS	MODEL CL8705 SI	HIP 33 T 010	CTR 61 FL	T 16.0	TR 6 1 FLAF	BEND :	STA 43
OVERALL CYCLIC LOA		4					
ZERO POSITION USED	9.51 L	DAD/IN USED	-26400.00				
	8J	CJ	PHIJC	PSIJC	CJ/CJMAX		FREQUENCY
-0.6284199E 03							
0.2038158E 04		0.3133283E 04			1.000000		0.544
0.9909556E 03	0.2689312E 03	0.1026799E 04		7.592	0.327707	2	1.288 1.932
0.8830085E 03	-0.6701172E 03	0.1108495E 04		107.692 87.939	0.353781	3	2.576.
0.1283445E 04	-0.1859602E 03	0.1296847E 04 0.2518677E 04	351.756 317.456	63.491	0.413894 0.803846		3.220
0.1655658E 04	-0.1703018E 04	0.2339705E 03		36.774	0.803848	6	3.863
-0.1775270E 03	-0.1524020E 03	0.1808934E 03		34.571	0.057733		
0.8493793E 02 _		0.1878934E 03		28.537	0.0777574		5,151
-0.1512852E 03	-0.1697682E 03 -0.9218341E 02	0.1113310E 03	235.895	26.211	0.035532	9	5.795
-0.6242474E 02					0.023700		
V. 9 12.81 (1E_U2	0•5701160E_02_	U+ 1423861E. VE	5576 040 .	396702.	06023100	10	
:					-		
····						*	
HARMONIC ANALYSIS DVERALL CYCLIC LDA					TR 31 2 FLAI	BEND	STA 43
ZERO POSITION USED			25900.00				
			,				
AJ -0.1223698E 04	. BJ	CJ	PHIJC	PŠIJC	CJ/CJMAX	٤	FREQUENCY
0.1596030E 04	0.8940303E 03	0.1829372E 04	150.744	150.744	0.867349		0,644
0. 1439208E 04	0,8602815E 03	0-1676724E 04	30.869	15.434	0.794975	2	
0.8430002E 02	-0.8616321E 03	0.8657461E 03	275.588	91.863	0.410471	3	1.932
0.1860857E_04	-0.7374829E_03_	0.2001667E 04	338.381	84.595	0.949039		2.576
0.1392722E 04	-0.1583935E 04	0.2109152E 04		62.265	1.000000	5	3.220
-0.8308058E 01	0.7963405E 02	0.8006624E 02		15.993	0.037961	6	3,863
0. 8606775E_02	0.1144503E 02			. 1.092	0.041166	7	4. 507.
-0.6984184E 02	0.8485205E 02	0-1098988E 03		16.182	0.052106		5.151
0.9530436E 00	0.3965793E 00	0.1032263E 01		2.510	0.000489	ğ	5.795
	0.8784103E_02_					1Ó	6. 439
•							
HARMONIC ANALYSIS . OVERALL CYCLIC LOA			CTR 61 FL	T 16.0	TR 11 3 FLA	BEND	STA 43
ZERO POSITION USED			20/00 00				
	8.27 L		-30400.00				
AJ -0.9871145E 03	BJ	CJ	PHIJC	PSIJC	XAML3\L3	J	FREQUENCY
0. 1573236E 04	0.9430667E.03	0.1834242E 04	149.060	149.060	0.000083		0.644
0.1467468E 04	0.83235215 03	0.1687089E 04		14.781	0.900983		1.288
0.3932900E 03	-0.64462575 03	0.15512878 03		100.462	0.828701	3	1.200
0.1061427E 04 _	0.1176535E 04					_	
0. 1288179E 04	-0.1053329E 04		. 324.696 320.728	64.146	1.000000		2.576 3,220
-0.1300637E 03	0.2173953E 03	0.1664003E 04	131.162		0.817361	-	3, 220 3, 863
0. 28645545 02		0.2887644E 03		21.860	0.141842	6	
0.2319865E 02	0.1293789E 02	0.4290691E 02 0.2656250E 02		44.555 3.544	0.021076 0.013048		
		いっしのコロノコロト リノ	/4.198		LILLIN K	8	5.151
						_	
0.1535438E 02	0.5955193E 01 -0.6155164E 02	0.1646880E 02	21.199	2.355	0.003090 0.030670	9	5.795 6.439

Table III. (Continued)

TEST 16 N =	5 (c	ONTINUED)									
HARMONIC ANALY OVERALL CYCLIC				> 33	T 010	CTR	61 FL	T 16.0	TR 41 2	FLAP BEND	5TA 118
ZERO POSITION	USED	0.39	LOA	D/IN USE	D	-14150.	00				
AJ -0.6710559E		BJ		C1		PHI	JC	PSIJC	CJ/CJHA:	x J	FREQUENCY
-0.1322804E		0.3882864E	03	0.41020	104E 01	3 251.	1 87	251.197	0 40017	5 1	0.644
0.4727393E		0.3464551E		0.5872				16.197			1.288
-0.1046693E		0.1106381E		0.15671				76. 032		7 3	1.288
0.6011580E		0.1512624E		0.61989				86, 469		1 4 .	2.576
0.46685745	03 -	0.69664388		0.64027			752	60. 750	1-00000	5	3.220
0.1143989E		0.4699326E		0.47007		271	395	45. 232	1.00000	š ,	3.863
0. 4982642E				0.95627			402		0-11340	, ,	4. 507_
-0.3545972E		0.3570145E		0.50318		134.	805	10.951	0.05988	8	5.151
D. 4044963E		0.4013658E		0.56983		64.	777	4.975	0.05781	5 9	5, 795
0.8659742E								7. 533			6.439_

HARMONIC ANALY Overall cyclic Zero position	LOAD :	- 0.182713 3.11	E 04 LOAD	O/IN USE				10,0			
AJ		81		CJ	i s.	PHI	7C	PSIJC	CJ/CJHA:		FREQUENCY
0.7175745E							-				
9. 7305337E.	03	0.7061978E	02	.0.73393	90E 03	354.	478	354.478	. 1.000000)1	0.644
-0.3392180E	03 -(0.3168535E	03	0.46418	21E 03	223.	048	111.524	0.63245	3 2	1.288
-0.3209297E	03 (D.1528431E	03	0-35546	70E 03	154.	534	51.511	0.484321	3	1.932
-0•246466ZE	03 (D. 8896663E	02	0.26203	117E 03	160.	152	40.038	0.35702	L 4	1.288 1.932 2.576
0.2479869E	03 (0.3438301E	03	0.42392	99E 03	5.4.	199	10.343	0.57760	9 5	3.220
0.7022075E	02 (0.3438301E 0.1117320E	03	0.13196	59E 03	57.	852	9,642	0.17960	5 6	3.863
0.41278205_					.63E 03	105.	443	15.063	0.21121	l <i>1</i> _	4.507_
0 • 2555584E	03 (0.1207605E	03	0.28265	30E 03	25.	292	3.162	0.385119	8	5.151
0.1545978E	03 (0.1494195E_ 0.1207605E 0.1463736E	02	0.15528			409	0.601	0.211583	9 3 9	5.795
0.4420393E	03(. 2308561E	.03	0.49869	14E.,03	327.	576	2. 758	0. 67947	310 _	6.439_
HARMONIC ANALY DVERALL CYCLIC	SIS MOD	DEL CL8705	SHIP	33	T 010	CTR	61 FL	T 16.0			
								•	•	•••	
ZERO POSITION		1.15	LUAL	O/IN USE							
AJ -0.7458748E		81		CJ				DL 1 29			FREQUENCY
0.3024521E				0.30343				355, 397	.0.99188	3 1 .	0.644.
-0.1522128E				0.22343				113.530		2	1.288
-0.1472354E		•9235915E		0.17380				49.300	0.568148	3	1.932
0. 2074436E				0.21233	OTE 03				0 . 6 9407.8		
0. 9012434E		. 1631460E	03	0-18638	41E 03	51.	083	12.217	0.609264	5	3.220 3.863 4.507
0. 5308292E		. 4899529E		0.72238				7.118	0.236136	6	3.863
0. 6545396E				0.73864				13.583	0.24145	2 7	4.507
0.1364916E	-	0.5197966E		J. 14605			848	2.606	0.477432	8	5.151
0.8351801E		. 2400987E	01	0.88550	52E 02	1.	554	0.173	0.289460	9	5.795
0. 2898538E	03(9782480E	02	0.30591	65E 03	18.	649	1.865	1.000000	10	

Table III. (Continued)

TEST 16		6									
					• 						
ARMON E	C ALAL	2124	MOLEL CL670>					T 16.0	TR 6 1 FLAI	PBEND	STA 43
			D = 0.819368E				•				
ERO PU	SITION	USED	9.51	LOAD/IN	JSED	•	-26400.00				
					€.յ		048-16		C-J/C-JMA X		FREQUENCY
	57761E	04					PHISC	F313C	C3/C3MX		PREMOCIALI
	39702E		0.1799186E 0	3 0.804	4506E	03	167.075	167.075	0.231230	1	0.633
	36286		0.22255616 0		3368E			24.122	0. 8 57646		
	78364E		-0.1668924E 0		3111E	04	249.384	1.3.128	0.512598	3	1.896
	44696E		-0.1291443E 0		15441E	04	336.319	34. JAO	0.924355	4	2.530
	51463E		-0.3005474E 0	4 0.34	18576E	04	300.232 "	50.046	1.000000	5 -	3, 163
0.13	60792E	02	0.15060625 0	0.20	29787E	02	47.901	7.984	0.005835	6	3, 795
-0.37	720245E	02	0.5472881E 0	2 0.60	17599E	02	124.206	17.744	0.01904	7	4.428
-0.48	324460E	02	0.56944658 0	0.46	57950E	02		21.559	0.013965	_	5,060
	539855E		0.7904853E 0		3 09 92E			16.980	0.004976		
0.80)76334E	02	0.342041/E 0	0.87	707672	02	22.953	₹-295	0.025214	10	6.325
					<u>.</u> .						
			MODEL CL8705 D = 0.836003E				CTR 62 FL		TR 31 2 FLA	P BEND	STA 43
EPO PO	NGIT 120	USED	3.75								
					·· C		DMI IC	PS 1 1C	C 1/C 1MAY	4	
	01930E		63		Ç.		F11130	. 31.30	CO/ COMA	•	INCESCRET
	29033E		-0.4464873E 0	13 0.54	52148E	Λ2	234.977	234.977	0.154444	1	0.633
	51272E		0.2495055E 0				- 49.232			-	1.265
	85571E		-0.1551749E 0		29215E			79.343	0.518166	3	1.898
	39465E		-0.1144595E 0		301 74E			85.270	1.000000		2. 530
	22507E		-0.3221213E 0		11212E			57.843		- s-	
-0.23	75834E	03	-0.2886235E 0		3302E			31.154	0.067796	6	3.795
-0.37	101024E	02	-0.4440126E 0	0.58	31883E	02	229,584	32.798	0.016520	7	4.428
-0.48	73506E	02	-0.8575287E U	2 0.98	3396E	02	240.390	- 30.049	- 0.027940		
-0, 33	313335E	02	-0.1903023E 0	0.38	20953E	02	209.871	23.319	0.010824	9	
	118130E		0.7433630E 0			03	43.924	4.392	0.030355	10	6.325
ARHON1	IC ANAL	A212	MODEL CL8/05	SHIP 31	 3 TO	10	CTR 162 FL	T 16.0	TR 11 3 FLA	P REMD	
ERO PO	SITION	USED	8, 27								
	71338E		BJ		-CJ		PHI JC	- PSIJC-	CJ/CJHAX		FREQUENCY
	07700E		0.48082528 0	0.56	28276E	03	175.099	175.099	0.170376	1	0.633
			0 . 2240826E 0				47.141				1.265
	15471E		-0.1567354E 0		6720E			83.975	0.499091	3	
	980361E		-0.1075051E		66325E	_		85.041	0.959097	4	
. 0. 16	67179E	- 04 -	0.2725144E 0		3448E	-					3, 103
	90650E	03	0.1159490E 0		56995E			25.688	0.080431	6	
			-0.39/9695E 0	0.44	40404Ē	02	243.499	34.786	0.013462	7	4.428
-0.19											
-0.19 -0.11	163228E		-0.3301328E 0		56912E			31.364	0.010767 ~		
-0.19 -0.11 -0.50		02	-0.3361328E 0 -0.3084743£ 0 -0.4545067E 0	0.59	56912E 21745E 97221E	ΟZ	211.394	23.488 31.380	0.010767 ~ 0.017926 0.019063	8 ·	

Table III. (Continued)

							
TEST 13 H = 0 (CONT (NUED)	•					
HARMUNIC ANALYSIS M GVERALL CYCLIC LUAD			10 CTR 62 I	FLT 16.0	TR 41 2 FLA	P BEND S	TA 118
ZERJ POSITION USED	0.39	LOAD/IN USED	-14150.00				
AJ		cJ		PSEJC -	CJ/CJMAX	J	FREQUENCY
-0.9390120E 03	-0.78528226	0. 0.00.200/5	03 263.732	502 725	0.630746	1	0.633
	J. 8015205E					2	1.265
	-0.3318633E						1.898
	-0.2951636E				0.396152 0.849014	4	2.530
		04 U. 1391989E		- 57.049			
	-0. 54486482				1.000000 - 0.122685 0.075336 0.014397	6	3. 795
	-0.1037296E				0.075336	7	4.428
-0.8679689E 01	0.18062612				0.014397	B	5.060
0.1829424E 02	0.3833821E		02 1.201	0.133	0.013145	9	5. 693
0.3236798E 02	0.2878421E		02 41.046	0.133 4.165	0.031118	10	6.325
HARMONIC ANALYSIS M	DDEL CL8705	SHIP 33 TO					
OVERALL CYCLIC LOAD	= 0.337072	E 04			**		
ZERO POSITION USED				•	**		
ELKO POSTITON OSED	30 11	LUAD/IN USED	-20330.00				
A				DELIC			. EREWIENEN
0.7808162E 03	5	CJ	FILLIC	PSIJC	CJ/CJMAX	J	PREQUENCT
	-0.2878662E	0.80428258	03 339.028	339.028	0.576518	1	0.633
-0.4147793E 03							1.265
-0.4121592E 03		0.4501677E			0.322665	ā	1.898
-0.385+077E 03	0.8733745E			41.808	0.283269		2.530
0.4276015£ 05	0.4057771E				0. 422552	•	·· - · 3.163 ··
0.8021694E U1	0.1428614E				0.102566		3.795
-0.1971854E 03	0.2287702E		03 130.759	18.680	0.216493	7	4.428
~ 0.2379915E 03·····			03 339.169	42.396	0.182526	8	5.060
	-0.3226630E (01 0.2531654E	03 160.730	20.081	0.182526 0.181472	· 9	5.693
0.829.4578E 03	0.1121703E	0. 1395069E	04 53.518	5.352	1.000000	10	6.325
MARMONIC ANALYSIS M UVERALL CYCLIC LOAD	ODEL CL8705	SHIP 33 T 0. E 04	10 CTR 62 F				
ZERO POSITION USED	1.15		- 16200.00				
-0.4049827E 03					CJ/CJMAX		FREQUENCY
0.252+396E 03	0.4196401E				0.310038	1	0.633
	-0.1895877E				0.320613		
-0.1749198E 03	0.1334523E				0.270177	3	1.898
-0.280+512E 03	0.33438282			43.300	0.346833	•	2.530
- 0.23L3248E 03						5	3.163
0.2440070E 02	0.7804828E			12.106	0.100418	6	3.795
-0.5939783E 02	0.94400605	02 0.1115328E	03 122-179	17.454	0.136962		4.428
0. 1412678E- 03	-U. 7373UZ4E (JZ U. 1483930E		42.772	0.182226	9	
-0.1377469E 03 0.5123108E 03	0.4349907E			19.658 5.101	0.169397	10	5.693 6.325

Table III. (Continued)

	N -	7	ļ														
		~~~~	HODEL CL8705					<b>C T</b> D									<del></del>
			0.54897		r 33	1 0	TU	CIK	63	FLI	10.0	IK	ь ;	l FL	AP BENU	STA 43	
ZERO PU	SITION	USED	9.51	LUA	D/IN U	SED		-26400	• 00						•		
			BJ			CJ		PI	JL II	·	PSIJC -	CJ	<b>I/C</b> JI	44 X	· J ·	FRE	ORENCA-
	.95610E 165785E		0.2097555E	04	0.287	47 2 A E	Á	13:	3.342		133.143	1.	000	100	,		0.632
			0.3992327E		0.112				702		10.351	0-	302	450	2		1.263
	37012E		-0.8321340E		0.117				708		104.903	0.	407	207	2		1.895
	229678		-0.1021254E		0.159				136		00.034	0-	554	244	3		2.527
			-0.94169c5E									· ^_	713	3N 4 ···			4.150-
	71858E		0. 180a016E		0.883				5.52		4.254	0.	U 3U.	720	,		3. 700
	37619E		0.7010565E		0.106				3.372		19.839	٥.	030	110	ÿ		4 422
												٧.	031.				F 054
	)83340E		0.1108055E		0.472				5. 676			٧.	A 10.	163	0	•	5 4
					0.276						15.444	ň.	CUY	20.5			70 007
0.28	34805yE	02	0.5610480E		0.290	21946	ŲZ		1-144	•	1.114	0.	0 100	) <del>7</del> 8	10		0.317
	•																,
OVERALL	. CYCLI	C LOA	MUDEL CL8705 D = 0.51044	5E 04				CTR	63	FLT	16.0	TR 3	1	2 FLA	AP BEND	STA 43	
ZERO PO	SITION	USED	3.75		D/IN U			25900	. 00	••							
												_					
			BJ /			CJ		PI	1110		PSIJC	. 61	1/61	MAX	··· <b>J</b> -	FKE	OUENCY-
	)89387E																
	938356		0.11393196	04	U. 204	1354E	04	140	5. 374	•	146.074	1.	000	000	1		0.632
0. 12	<b>!44</b> 281E	04	0.6767229E	03	0.141	6400E	.04	21	3.540	)	14.270	0.	693	853	2-	<del></del>	-1.263-
0.57	734050E	03	-0.7068481E -0.90182915 -0.12532595	03	0.910	1799E	03	30	9.049	•	103.016	0.	445	571	3		1.895
0.16	35870E	04	-0.90182915	03	0.186	7984E	04	33	1.13	•	82.783	0.	915	071	4		2.527
0. 98	323584E	03	0. 12532595	0+	.0.159	2416E	04	30	3.090	)	-61.618	0.	760	076-	5		-3.159-
-0.14	069178	03	0.1915673E	03	0.237	ób ObE	03	120	5.29	5	21.049	0.	116	433	6		3.790
0.42	210219E		U. 1019891E			6ء کو ف	03	6	7.56	9	9.653	0.	054	051	7		4.422
	-32036E	02	0. 6867941E	02	0.817							O-	0.40	041	A		5.054
-0-43	1843295	02	-0. 7629713E	02	0. 474	9706E	0.2	240	0.11	,	26.680	0-	043	0.7	ğ		5.685
			0.4423689E								11.321	0.	023	579 -	10		6.317
	<del></del>																
. <b>. </b>									•								
	CYCL I	ZIZY	MODEL CL8705 D = 0.53308	SHI	P 33	TO	10	CTR	٥3	FLT	16.0	TR 1	11	3 FL/	AP BEND	STA 43	
OVERALL			0177700			CED		-30404									•
OVERALL	SITIAL	HICED	a. 27	1 (1)													
ZERO PO											061.40	_		<b>44</b> F			014 <b>2</b> to 200
ZERO PO	AJ		8.27								PSIJC	ε.	1/CJ	HAX	<u>_</u>	FRE	QUENCY-
ZERO PO	-AJ	04				c.j		Р	11 JC								_
OVERALL ZERO PO -0.12 -0.15	-AJ	04	0. 9901465E	03	0.187	6358E	04	PI	11JC	)	148.150						_
-0.12 -0.15 0.12	-AJ	04 04 04	0.9901465E 0.7176167E	03	0.187 0.144	€J 6358E 0b70E	04	Pi	11.JC- 3.150 9.880	)	148.150 14.940	0.	901	373 171	1 . ز		0.632
OVERALL ZERO PO -0.12 -0.15 0.12 0.50	- AJ	04 04 04 03	0.9901465E 0.7170167E -0.1028615c	03 03	0.187 0.144 0.114	6358E 6358E 0670E 7389E	04 04 04	140 290	11 JC - 3 . 150 9 . 8 80 5 . 30	) )	148.150 14.940 98.767	0.	901	373 171	2		0.632 1.263 1.895
-0.12 -0.15 -0.15 0.12 0.50	- AJ	04 04 04 03	0. 9901465E 0. 7176167E -0. 1028615E -0. 1073528E	03 03 04 04	0.187 0.144 0.114 0.208	6358E 0670E 7389E 1667E	04 04 04	14( 29) 32(	11 JC- 3 . 150 9 . 860 5 . 301 3 . 955	) ) !	148.150 14.940 98.767 82.239	0. 0. 0.	901 692 551	373 171 188	2 3 4		0.632 1.263 1.895 2.527
-0.12 -0.15 -0.15 0.12 -0.15	- AJ	04 04 04 03 04	0. 9901445E 0. 7176167E -0. 10286156 -0. 10735286	03 03 04 04	0.187 0.144 0.114 0.208 0.194	6358E 0670E 7389E 1667E 9271E	04 04 04 04	146 29 29 320 — 32	11 JC- 3 . 150 9 . 8 80 5 . 301 3 . 955	) ) ;	148.150 14.940 98.767 82.239	0. 0. 0.	901 692 551	373 171 188	1 3 4		0.632 1.263 1.895 2.527
-0.12 -0.15 -0.15 0.12 -0.50 -0.15	AJ	04 04 04 03 04 04	0.9901465E 0.7170167E -0.1028615c -0.1073528c -0.1163601E 0.1763609E	03 03 04 04 04 04	0.187 0.144 0.114 0.208 0.194 0.187	6358E 0670E 7389E 1667E 9271E 6104E	04 04 04 04 04	146 296 326 — 32	3.150 9.880 5.301 3.951 3.344	) ) ! 5	148.150 14.940 98.767 82.239 -64.670 18.324	0. 0. 0.	901 692 551	373 171 188	1 3 4		0.632 1.263 1.895 2.527
-0.12 -0.15 -0.15 0.12 -0.15 -0.13 -0.41	AJ	04 04 04 03 04 04 02	0.9901465E 0.7178167E -0.1028615c -0.1073528c -0.1163601E 0.1763602E 0.1423725E	03 03 04 04 04 04 03 03	0.187 0.144 0.114 0.208 0.194 0.187	6358E 0670E 7389E 1667E 9271E 6104E	04 04 04 04 04	146 296 326 — 32	3.150 9.880 5.301 3.951 3.344	) ) ! 5	148.150 14.940 98.767 82.239 -64.670 18.324	0. 0. 0.	901 692 551	373 171 188	1 3 4		0.632 1.263 1.895 2.527
-0.12 -0.15 -0.15 0.12 -0.15 -0.13 -0.41	AJ	04 04 04 03 04 04 02	0.9901465E 0.7170167E -0.1028615c -0.1073528c -0.1163601E 0.1763609E	03 03 04 04 04 04 03 03	0.187 0.144 0.114 0.208 0.194 0.187	6358E 0670E 7389E 1667E 9271E 6104E	04 04 04 04 04	146 296 326 — 32	3.150 9.880 5.301 3.951 3.344	) ) ! 5	148.150 14.940 98.767 82.239 -64.670 18.324	0. 0. 1. 0.	901 692 551 000 936 090 071	373 171 188 000 399 125 292	1 3 4 		0.632 1.263 1.895 2.527
-0.12 -0.12 -0.15 0.10 0.17 -0.61 -0.63	AJ	04 04 04 03 04 04 02 02	0. 9901465E 0. 7176167E -0. 1028615E -0. 1073528E -0. 1163601E 0. 1763609E 0. 142372E 0. 0908549E	03 03 04 04 04 04 03 03	0.187 0.144 0.114 0.208 0.194 0.187	6358E 0670E 7389E 1667E 9271E 6104E 4056E 0531E	04 04 04 04 03 03	146 29 29 326 32 100 100	3.150 9.880 5.301 5.344 9.942 5.345 9.942	)       	148.150 14.940 98.767 82.239	0. 0. 1. 0.	901 692 551 000 936 090 071	373 171 188 000 399 125 292	1 3 4		0.632 1.263 1.895 2.527

Table III. (Continued)

TEST 16 N =	7 (0	COBUNITHO:									
HARMONIC ANALYS					T 010	CTR 63	FLT 10.0	TR 41	2 FLAP	BEND	STA 118
ZERO POSITION U	SEC	0.39	LUA	C/IN USE	D	-14150.00		-			
		R.I		C.J.		PH1-JC	PS1:4C-	C.I/C.I	MAX		FREQUENCY
-0.6264546E 0				•			. 3.00			•	, we don't
-0.1191754E 0		0.3839062E	03	0.401980	05E 03	252.75	4 252.754	0.600	645	1	0.632
0.4132488E 0	3 (	0.27306545	03			33.45	6 16.728	0.740	110	2	1.263 1.895 2.527
0.3208383E 0.		U. 1728768Ē					4 93.505	0.262	746	ž	1.895
0.56271758 0		0.2i 63016E		0.60651	76E 03	338.09	2 84.523	0.906	268	4	2.527
0.3692554E 0	3	D. 5541606£	03.	0.66924	78E 03	· 303 <b>.</b> 48	7 60.697				
-0.4739237E 0	L I	0. 22018285 0. 8999956E	02	0.22522	54E 02	102.14	7 17.025 7 37.990	0.033	654	6.	3.790
-0.6407538E 0	1 -	0 <b>.</b> 8999956E	02	0.90227.	34E 02	265.92	7 37.990	0.134	<b>61</b> 9	7	4.422
-0.2908060E 0.	1 (	0.38597765	02	0.38707	17E 02	94.30	9 11.789	0.057	B37	8	5.054
0.5036441E 0. 0.2407362E 0	2 (	0.66471732	02	0.833969	99E 02	52.84	9 5.872	0.124	613	9	5.685
0. 2407362E 0	2 (	0.5293484E	01	0.24648	73E 02	12.40	1 1-240	0.036	630 	10	3.1790 4.422 5.054 5.685 6.317
HARMONIC ANALYS	IS MOI	DEL CL8705	SHI	P 33 1			FLT 16.0		 2 CHORE	) BEND	STA 21.
OVERALL CYCLIC	LUAD :	- 0.50141	4E U4								
ZERO POSITION U	SED	3.11	LÜA			-20300.00					
in light in AJ millions		Bj		C.1		· ·- PHILIC					. EDEAHENCY.
							"" PSIJC"		MA 4	J.	LVEROFIACE
U.5794885E O							P211C		MA A·····	J.	PREGOENCE
0.5794885E 0 0.7245562E 0	3	0.2057012E									
0.5794885E 0: 0.7245562E 0: -0.2785283E 0:	3	0.2057012E 0.2824033E						1.000	000	ı 	0.632
0.7245562E 0: -0.2785283E 0:	3 3 -( 3(	0.2057012E 0.2824033E 0.2042900£	03	0.753189 0.39664	95E 03 79E 03	344.15 225.39	1 344.151 6 112.698	1.000	000	ı 	0.632
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0:	3 3	0.2042900E 0.7346814E	03 03 03	0.753189 0.39664 0.367892 0.230813	95E 03 79E 03 23E 03	344.15 225.396 146.26	1 344.151 6:::112.698 9 48.756	1.000 0.526 0.488	000 624 446 453	1 2 3 4	0.632 1.263 1.895 2.527
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0:	3 3	0.2042900E 0.7346814E	03 03 03	0.753189 0.39664 0.367892 0.230813	95E 03 79E 03 23E 03	344.15 225.396 146.26	1 344.151 6:::112.698 9 48.756	1.000 0.526 0.488	000 624 446 453	1 2 3 4	0.632 1.263 1.895 2.527
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0:	3 3	0.2042900E 0.7346814E	03 03 03	0.753189 0.39664 0.367892 0.230813	95E 03 79E 03 23E 03	344.15 225.396 146.26	1 344.151 6:::112.698 9 48.756	1.000 0.526 0.488	000 624 446 453	1 2 3 4	0.632 1.263 1.895 2.527
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.1418433E 0: 0.5035338E 0:	3 -( 3 -( 3 ( 3 ( 2 ( 2 (	0.2042400E 0.7346814E 0.2706564E 0.5947173E 0.9556293E	03 03 03 02 03 02	0.753189 0.39664 0.367893 0.230813 0.350474 0.611399	95E 03 79E 03 23E 03 70E 03 41E 03 85E 02 73E 03	344.15 	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 8.88	1.000 0.526 0.488 0.306 0.505 0.081	000 624 446 453 151	1 2 3 4 5 6	0.632 1.263 1.895 2.527 3.159 3.790 4.422
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.1418433E 0: 0.5035338E 0:	3 -( 3 -( 3 ( 3 ( 2 ( 3 -(	0.2042900E 0.7346814E 0.2706564E 0.5947173E 0.9556293E	03 03 03 02 03 02 03	0.753189 0.396647 0.367897 0.230817 0.350477 0.611398 0.108017	95E 03 79E 03 23E 03 70E 03 41E 03 85E 02 73E 03	344.15 - 225.39( 146.26) 161.44( 45.34) 76.56( 62.21)	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 3.888	1.000 0.526 0.488 0.306 0.505 0.081	000 624 446 453 151 175 413	1 2 3 4 5 6 7	0.632 1.263 1.895 2.527 3.159 3.790 4.422
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.141843E 0: 0.503533BE 0:	3 -( 3 -( 3 ( 3 ( 2 ( 3 -(	0.2042900E 0.7346814E 0.2706564E 0.5947173E 0.9556293E	03 03 03 02 03 02 03	0.753189 0.396647 0.367897 0.230817 0.350477 0.611398 0.108017	95E 03 79E 03 23E 03 70E 03 41E 03 85E 02 73E 03	344.15 - 225.39( 146.26) 161.44( 45.34) 76.56( 62.21)	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 3.888	1.000 0.526 0.488 0.306 0.505 0.081	000 624 446 453 151 175 413 775	1 2 3 4 5 6 7	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.045
0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.1418433E 0: 0.5035338E 0:	3 -( 3 -( 3 ( 3 ( 2 ( 3 -(	0.2042900E 0.7346814E 0.2706564E 0.5947173E 0.9556293E	03 03 03 02 03 02 03	0.753189 0.396647 0.367897 0.230817 0.350477 0.611398 0.108017	95E 03 79E 03 23E 03 70E 03 41E 03 85E 02 73E 03	344.15 - 225.39( 146.26) 161.44( 45.34) 76.56( 62.21)	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 3.888	1.000 0.526 0.488 0.306 0.505 0.081	000 624 446 453 151 175 413	1 2 3 4 5 6 7	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.045
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0.7245562E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.1418433E 0: 0.5035338E 0: -0.2494483E 0: 0.7125314E 0: 0.3013208E 0:  MARMUNIC ANALYS  OVERALL CYCLIC (  ZERO POSITION U: -0.3473262E 0:	3 - 1 3 - 1 3 3 4 3 3 4 2 4 2 4 2 4 2 4 2 4 3 4 4 5 5 6 7 8 8 8 8 9 1 8 9 1 9 1 1 1 1 1 1 1 1 1 1	0. 23428142 0. 73498142 0. 27065046 0. 59471736 0. 95562936 0. 14250496 0. 14250496 0. 39020196 0. 39020196 0. 14561	03 03 02 03 02 02 02 02 03 03 03	0.753184 0.39664 0.36789; 0.23081; 0.35047; 0.61139; 0.10801; 0.24988; 0.15932; 0.49300; P 33	95E 03 77E 03 23E 03 70E 03 41E 03 85E 02 73E 03 92E 03 27E 03	344.15 - 225.39 146.26 161.44 45.34 76.56 62.21 356.59 296.56 52.32	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 d.88 8 44.575 5 32.952 4 5.232	1.000 0.526 0.488 0.306 0.505 0.081 0.143 0.331 0.211 0.654	000 624 446 453 151 175 413 775 5535 5535	1 2 3 4 5 6 7 8 9 10	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.054 5.685 6.317
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0.7245562E 0: -0.2785283E 0: -0.3785983E 0: -0.2188125E 0. 0.2674036E 0: 0.5035338E 0: 0.2494483E 0. 0.7125314E 0. 0.3013208E 0:  MARMUNIC ANALYS  DVERALL CYCLIC (  LERO POSITION U: -0.3473262E 0: 0.3473262E 0: -0.1597089E 0: -0.1230791E 0: -0.1230791E 0: -0.1217243E 0:	3 -(3 3 3 4 3 3 4 4 3 3 4 4 4 4 4 4 4 4 4 4	0.2042900 0.73468142 0.27065046 0.59471736 0.95562936 0.14250496 0.14250496 0.39020146 0.14250496 0.14250496 0.14250496 0.15274646 0.15274646 0.15274646 0.25312156 0.13444736	03 03 02 03 02 03 02 02 03 03 SHI 0E 04 LOA	0.753184 0.39664 0.36789; 0.23081 0.35047 0.61139; 0.10801 0.15932; 0.49300; P 33 D/IN USE( 0.22099; 0.16906; 0.12965; 0.181734	95E 03 79E 03 79E 03 70E 03 41E 03 85E 02 73E 03 92E 03 56E 03 27E 03 41E 03 31E 03 50E 03 49E 03	CTR 63  16200.00  PHIJC  354.53  223.72  129.83  168.37	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 4.888 8 49.575 5 32.952 4 5.232  FLT 16.0  PS1:C 9 354.539 3 111.962 1 49.277 9 42.095 9 9.590	1.000 0.526 0.488 0.306 0.505 0.081 0.143 0.331 0.211 0.654  TR 38  CJ/CJ 1.000 0.605 0.508 0.378 0.378	000 624 446 453 151 175 413 775 535 5553 2 CHORU	1 2 3 4 5 6 7 8 9 10 BEND	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.054 5.685 6.317 STA 69
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0.7245562E 0: -0.2785283E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.5035338E 0: -0.2494488E 0: 0.7125314E 0: 0.3013208E 0:  MARMUNIC ANALYS  DVERALL CYCLIC  LERO POSITION U: -0.3473262E 0: 0.3306831E 0: -0.1597089E 0: -0.1280791E 0: -0.1217243E 0: 0.21737779E 0: 0.5823193E 0:	3 -(3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.2042900 0.73498142 0.27065046 0.59471736 0.95562936 0.14250496 0.14250496 0.39020196 0.14561 1.15 0.14561 1.15 0.14561 0.15274646 0.12982556 0.13494736 0.91022206 0.91022206	03 03 02 03 02 02 02 03 03 03 04 LOA	0.753184 0.35064 0.36789; 0.23081; 0.35047; 0.61139; 0.10801; 0.15932; 0.49300; P 33 1	95E 03 77E 03 77E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03	CTR 63 16200.00 PHIJC 354.53 168.37 169.83	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 d.88 8 44.575 5 32.952 4 5.232  FLT 16.0  PSIJC 9 354.592 1 49.277 9 42.095 9 9.592 5 66.213 8 7.071	1.000 0.526 0.488 0.306 0.505 0.081 0.143 0.311 0.654 TR 38	000 624 446 453 151 175 413 775 5535 5535 2 CHORU	1 2 3 4 5 6 7 8 9 10 BEND	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.054 5.685 6.317 STA 69 FREQUENCY 0.632 1.263 1.895 2.527 3.759 3.790 4.422
0.7245562E 0: -0.2785283E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.5035338E 0: 0.5035338E 0: 0.2494483E 0: 0.3013208E 0:  MARMUNIC ANALYS  OVERALL CYCLIC (  LERO POSITION U: -0.3473262E 0: -0.1597089E 0: -0.1230791E 0: -0.1230791E 0: -0.1237779E 0: 0.5823193E 0: 0.1797512E 0:	3 -(3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.2042906 0.73468142 0.27065046 0.59471736 0.95562936 0.1452946 0.14250496 0.14250496 0.14250496 0.14250496 0.14250496 0.14250496 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646	03 03 02 03 02 02 02 02 03 03 SHI 0E 04 LOA	0.753184 0.39664 0.36789; 0.23081 0.35047 0.611391 0.10801 0.24988 0.15932; 0.49300; P 33 D/IN USE( 0.22099 0.16906; 0.12965 0.18173 0.23566 0.19850 0.17985	95E 03 79E 03 79E 03 79E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03	CTR 63  16200.00  PHIJC  354.53  123.72  CTR 63  16200.00  PHIJC  37.28  168.37  37.28  49.49	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 d.388 8 4.575 5 32.952 4 5.232  FLT 16.0  PS1JC 9 354.539 3 111.862 1 43.277 9 42.095 9 9.90 0 56.213 7.071 4 44.752	1.000 0.526 0.488 0.306 0.505 0.081 0.143 0.331 0.211 0.654 TR 38	000 624 446 453 151 175 413 775 535 5553 2 CHORU	1 2 3 4 5 6 7 8 9 10 BEND	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.054 5.685 6.317 STA 69
0.7245562E 0: -0.2785283E 0: -0.2785283E 0: -0.3059583E 0: -0.2188125E 0: 0.2674036E 0: 0.5035338E 0: -0.2494488E 0: 0.7125314E 0: 0.3013208E 0:  MARMUNIC ANALYS DVERALL CYCLIC ( LERO POSITION U: -0.3473262E 0: 0.3306831E 0: -0.1597089E 0: -0.1282696E 0: -0.1282791E 0: -0.1217243E 0: 0.2173779E 0: 0.5823193E 0:	3 -(3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.2042906 0.73468142 0.27065046 0.59471736 0.95562936 0.1452946 0.14250496 0.14250496 0.14250496 0.14250496 0.14250496 0.14250496 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646 0.15274646	03 03 02 03 02 02 02 02 03 03 SHI 0E 04 LOA	0.753184 0.39664 0.36789; 0.23081 0.35047 0.611391 0.10801 0.24988 0.15932; 0.49300; P 33 D/IN USE( 0.22099 0.16906; 0.12965 0.18173 0.23566 0.19850 0.17985	95E 03 79E 03 79E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03 70E 03	CTR 63  16200.00  PHIJC  354.53  168.37  168.37  298.33  168.37  298.33  168.37  298.33	1 344.151 6 112.698 9 48.756 0 40.360 7 9.069 5 12.764 5 d.88 8 44.575 5 32.952 4 5.232  FLT 16.0  PSIJC 9 354.592 1 49.277 9 42.095 9 9.592 5 66.213 8 7.071	1.000 0.526 0.488 0.306 0.505 0.081 0.143 0.331 0.211 0.654 TR 38	000 624 446 453 151 175 413 775 5535 5535 2 CHORU	1 2 3 4 5 6 7 8 9 10 BEND	0.632 1.263 1.895 2.527 3.159 3.790 4.422 5.054 5.685 6.317 STA 69

## Table III. (Continued)

-			
TEST	1 10	M =	4

TEST 16 N =	6	:								
HARMONIC ANALY					T 010	CTR 64	FLT 16.0	TR 6 1 FLAP	BEND S	STA 43
ZERU POSITION	USEC	9,51	LUA	D/IN USE	ED	-26400.00		•		
AJ -0.2492522E				,.с.	,	PHIJC	PSIJC	CJ/CJMAX ·	٠.	FREUUENCY
-0. 2049502E		0.7597058E	02	0.20509	009F 04	177.877	177.877	0.704500	1	0.637
0.2633535E		0.5248337E		0.26853						
0.2450077£		-0.7657048E		0.80394					ذ	1.912
0. 23353456		-0.9817324E		0.25333					į	2.549
0.1424222E		-0.2520120E		0.20947					•	···· 3.187 ···
-0.23263406		0.6436055E		0.2413					_	
									. 6	3.824
-0.55071492		-0.9171924E		0.10698					. 7	4.461
-0.5976410E		0.7342049E		0.6021						5.099
-0.1685544E		-0.33013152		7967د ۵۰					9	5 <b>.</b> 736
0.1287424E	03	-0. 41 44 466E	01	0.12001	07E 03	358.134	35.813	0.044498	10	6.373
٠.								e sombre so a so so so so		
HARMONIC ANALY OVERALL CYCLIC					1 010	CTR 64	FLT 16.0	TR 31 2 FLAR	PEND S	TA 43
ZERO POSITION	USED	3.75	LÜA	D/IN US	ED	25900.00				
		· · · BJ		· c.		- PHI JC	· PSIJC ·	- CJ/CJMAX		FREQUENCY
-0.2534947E										•
-0.1618472E		-0.78629885		0.17993					1	0.637
. 0.2727160E	04	0.75592365	O3 ···	0.28299	966E 04	15.492	7.746	1.000000	2 -	1.275
-0.1087043E	03	-U.6266172E	03	0.63597	761E 03	260-150			3	1.912
0.2599941E	04	-0.7151172E	03	0.26964	495E 04	344.621	86-155	0.952830	4	2.549
0.1138791E	04	-0.2475941E	-04	0.27252	276E-04	294. 706		<del>0.963000</del>		-3.187-
-0.4431987E	03	0.5321964E	02	0. 44636	326E 03	173.15	28.859	0.157733	6	3.824
-0.1786786E		-0.1047338E		0.10524					7	4.461
0.1401890E										5.099
-0.1105278E		-0.82819828		0.13811					9	5.736
-0.1523751E	02	-0.1435013E		0.2093	102E 02	223.28	22.328	0.007396	10	6.373
								e e e e e e e e e e e e e e e e e e e		
HARMONIC ANALY		IJDEL CL8705	SHI	P 33	L OTO	CTR 64		TR 11 3 FLAF		
OVERALL CYCLIC	LOAD	0.63687	2E 04							
ZERO PUSITION	USED	8.27	LÜA	D/IN USE	÷D	-30400.00				
				с.	<del>,</del> -	PH1JC-	PSIJC-		<del></del>	FREQUENCY-
-0.2320016E										
-0.1603365E		-0.6184521E		0.1718					1	0.637
0. 26232718		0.74905208				15.936			. 2	
0. 8355457E		-0.67727C3E		0.68240					3	1.912
0.1923597E		-0.7906709E		0.20797					<b>4</b> .	2.549
0. 1477942E	04	-0.20517716	04	0.25280	>1E 04	30 5. 766	61.153	-0.926885-	<del></del> 5	3.187
-0.1204386E	03	-0.7979323E	02	0.14447	729E 03	213.52			6	3.824
0. 1080924E		-0.7787672E		0.13322					7	4.461
C. 3378654c		-0.2742651E		0.27033				0.010129		
-0. 36594925		-0.6529242E		D.65394					ğ	5.736
0. 1175260E		-0.4862729E		0.50027					10	
U- 11/32 BUE	J.	U. 7006147E	UZ	0. 3002	.JOE UZ	2034 38	200329	A* A1 8332	10	6.373

Table III. (Continued)

TEST 16 N = 8 (CONTINUED)

1621 TO M -		CONT (NDED)			·					
HARMONIC ANALY OVERALL CYCLIC	LOAD		04			CTR 64 FL1	T 16.0	TR 41 2 FL	AP BEND	STA 118
ZERO POSITION	USED	0.39	LOAD/	IN USED	•	-14150.00				
LA 361066P8 •U-	0.4	BJ: =		. C1		PHI JC	PSIJC	CJ/CJMAx	J	FREGUENCY
-0.1493866E		-0.8832664E 0	3 0.	. 89576001	F 03	260-419	260-419	0.808326	1	0.637
	03	0.3036084E 0	3 0.	8637275	E 03	20.094 -	10-047	0.747468		
-0.1197107E		-0.1130462E 0		10465148				0.148580	3	
0.8715813E	03	-0.1528650E 0	3 0,	88488508	E 03	350.052	87.513	0.798512	4	
0.3034756E	03	-0.1065604£ 0	4 0.	11081678	E 04	285.894	57.179	1.000000	5	- ···· 3. 187 ···
-0.184>216E		-0.3206158E 0		اد187089.			31.045	0.168828	. 6	3.824
0.2003743E	01	-0.1116475E 0:	3 0.	11186548		271.026	30.718	0.100946		
-0.2446307E	01	0.3965813E 0. 0.1139056E 0.	1 0.	, 494U486f	: O1	126.610 12.836	15.826	U. 004458	8	5.099
				.5127220	E 02	12.836	1.426	0.046268		5.736
0.4073476E	02	0.3996127E 0	ž	. 5 7063326	: 02	44-451	4.445	0.051493	, 10	6.373
HARMONIC ANALY				33 T (		CTR 64 FLT	r .6.0	TR 34 .2 CF	IDRD SEN	) STA 21.
OVERALL CYCLIC	, LUAŲ	- 0.245/185	04							
ZERO POSITION	USED	3.11	LOAD/I	N USED	•	-20300.00				
· CA-		BJ		CJ	٠.	PHIJC	- PSIJC	CJ/CJMAX		- FREQUENCY -
0.849600oE										· .
0.5815437E		-0.2414885E 0					337.449		1	0.637
		-0.17/55U6E 0		, 451 8936E				0.655366		1.275
-0.2893330E		0.2514294E 0		38331498			46.336			
-0.2909668E		0.1256073E 0.		31692098			39.163			2.549
0.3627083E		0.2463600E-0				34.185	6.837			3.187
0.1102683E		0.1285736E 0		11101548		6.651	1.108	0.161002 0.109200 0.484085	6	3.824
0.10238685		0.7352452E 0		75296378					7	4.461
		0.7338899E 0				12.701				5.099
-0.1778976E				18642628						
0.4100039E	03	0.55438798 0	, 0,	0935836	: 03	53.515	5.351	1.000000	10	6.373
	<u>-</u>								•	
HARMONIC ANALY DVERALL CYCLIC	SIS M	DCEL CL8705 = 0.158380E	SHIP 04	33 T 0	)10	CTR 64 FL1		TR 38 2 CH	IORD BEND	) STA 69
ZERO POSITION	USED	1.15	LOAD/I	N USED		16200.00				
AJ -0.4218691E	 03	8 <b>3</b>		CJ ··		PHIJC	PSIJC ·	CJ/CJMAX		FREQUENCY
0.2766309E		0.7252481E 01	ı o.	2767258E	E 03	1.502	1.502	0.622407	1	0.637
0.2647144E						202.860				
-0.2160262E		0.1426245E 0		25936216			48.880		3	1.912
-0.2261493E	03	0. 2230549E 0		22726728			43.611			2.549
- 0.136240JE	03	0.1744781E-0								3.187
0.1123851E	03	0.2212463£ 0		11240696		1.128	0.188	0.252623		3. 824
0.2537059E				4150391E	02	52.318	7.474	0.0933>0	7	4.461
	03	-0.1402952E 02	٠ ٥.	21129518	60 -	~ 356.193····	- 44.574	0.475241	- ··· · · · · · · · · · · · · · · · · ·	5.099
-0.1133555E 0.3215752E	03	0.10983928 02	2 0.	11380646						

Table III. (Continued)

TEST 16 H - 9	:					:
HARMONIC ANALYSIS	MODEL CL 9705	SHIP 33 TO	10 CTD 45 6	17 16 0	TR 6 1 FLAP	HEND CTA 43
OVERALL CYCLIC LO			to cik by r	C. 10.0	IN U I FEME	DEND 31A 43
OVERALL CICCIC ED	WD - 01000330E					4 5
ZERO POSITION USE	D 9.51	LOADZIN USED	-26400.00			
	BJ	· · CJ ·	PHIJC.	·· PSIJC -	CJ/CJMAX	J FREQUENCY
-0.292130aE 04						
-0.1842063E 04	-0.1085697E 0			210.515	0.544238	1 0.642 1.285
0.3881517E 04	0.6077664E 0					
-0.2950936E 03	-0.46±2744E 0			79.261	0.140682	3 1.927
0-2775731E 04	-0.2090441E 0			80.787	0.882926	4 2.569
0.5548750E 03	-0.27091415 0				0.703872	
-0.4810368E 03	0.1120025E 0			27.803	0.125752	6 3.854
0.4155392E 02	-0.1623750E O			40.622	0.042661	7 4.496
-0.13376658 03	0.6419699E 0			19.295	0.037766	s 5.138
-0.2503110E 02	-0.5539357£ U			27.301	0.015469	9 5.780
0.7.20621E 02	0.2506339E 0	2 0.1757420E	02 19.319	1.932	0.019745	10 6.423
MARMONIC ANALYSIS OVERALL CYCLIC LO	MODEL CL8705	SHIP 33 T 0	•	LT 16.0	TR 31 2 FLAP	BEND STA 43
ZERO POSITION USE	0 3.75	LOAD/IN USED	25900.00			
AJ	bJ	CJ	·· ·· PHIJC	PSIJC	CJ/CJMAX	- J FREQUENCY -
-0.3608079E 04						
-0.1574775E 04	-0.1685868E 0			226. 951	0.539506	1 0-642
0.4103465E 04	0.8738926E 0			6.011	0.981156	
-0.9630547E 03	-0.6062095E 0			70.730	0.266124	3 1.927
0.3593717E 04	-0.23173095 0			81.796	1.000000	4 2,569
					···· 0. 8 14354····	<del>5 3.211</del>
-0.3550352E 03	0.1664858E U	3 0.3921335E	03 154.876	25.813	0.091704	<b>b</b> 3.854
0.1127435E 03	0.5499715E 0	1 0.1128775E	03 2.793	0.399	0.026398	7 4.496
0.2303654E 02	0.9223903E 0	2 0. y507216E	02 104.023	13.003	0.022234	6 / 5.138
0.6942728E 01	-0.1853044E 0	2 0.1978835E	02 290.539	32.282	0.004628	9 5.780
0.4366228E 02	0.2808253E 0	2 0.5191360E	02 32.748	3.275	0.012141	10 6.423
HARMONIC ANALYSIS OVERALL CYCLIC LO			10 CTR 65 F	LT 16.0	TK 11 3 FLAP	BEND STA 43
ZERU POSITION USE		LOAD/IN USED	-30400.00			
-0.2897371E 04				PSIJC	CJ/CJMAX	J- FREQUENCY
-0.1375395E 04	-0.1707894E 0	• 0.2192855E	04 231.155	231.155	0.481685	1 0.642
0.4435733E 04	0.10242995 0			0.501	1.000000	
-0-10189e1E 04	-0.5135713£ 0			68.916	0.250648	3 1.927
0.3396653E 04	-0.1551408E 0			82.754	U. 852 724	4 2,569
0.8400150E 03	0.3191021E 0					53.211
-0.5257383E 03	0.86805548 0					
0.56566976 02				28.437	0.117048	
···· 0.2598450E 02				41.814	0.03/20>	
0.257610E 02	0.12719906 0			3. 260	0.006355 **	
	0.4263902E 0			1.044	0.005737	, , , , , ,
0.2046832E 02	-0.27927195 0	2 0.34624858	02 306.238	30.024	.0.007606	10 6.423

Table III. (Continued)

TEST 16 N =	9 (	(CONT INVED)				٠				**				
HARMONIC ANALY					T 01	0 C1	R 65 F	LT 16.0	TR 41 2	FLAP	BEND	STA 11	в .	_
OVERALL CYCLIC	LUAL	) = 0.316201	E 04			•								
ZERO POSITION	USED	0.39	LUAC	IN USE	D	-14	150.00		•					
AJ				- · · - CJ			PHIJC -	PSIJC	CJ/CJM	X	-J	FRE	JUENCY	
-0.1030415E		-0 11245215	۸,	0 11606	A7E /	• .	5/1 359	241 753	0.7705		1		0 (10	
-0.16472758		-0.1136531E		0-11484			261.753		0.7782				0.642 1.285 -	
0.1236088E		0.3596220E		0.12873			16.230	8.115 59.210			3		1.927	
-0.4124458E		-0.74424035		0.14693			177.631		0.2797		4		2.569	
0.1266853E -0.1623852E		-0.1466708E		0.1475			324.565 203.682	82.371 52.736	1.0000				3.211	
-0.2054724E		0.3832152E		U. 20901				28.239	0.1416		6		3.854	
0.5165794E		-0.2772769E		0.50629			331.775		0.0397		7		4.496	
		U. 4924651E		0.7307			41.945		U. 0499		8		5.138	
0. 6053873E		0. 4756583E		0.76989			38.157				ÿ		5.780	
0.9630188E		0.1523615E		0.21514							10		6.423	
0.45301882		0.19236136					63.406		0.0145			<del></del>		
				_						,				
HARMONIC ANALY				33	T 01	0 C1	'R 65 F	LT 16.0	TR 34 2	CHOR	D BEND	STA 2	١.	
GVERALL CYCLIC								,						
ZERO POSITION	USED	3.11	LOAD	IN USE	D	-20	330.00							
LA				C.			PHIJC	DLIZA	CJ/CJM	A X	٠.,	" FRE	JUENCY -	
0.9757551E	03												-	
0.5991628E		-0.40747COE					325.782	325.782	0.9763	27		,	0.642	
-0.5136328E				0.53955			197.831	98, 916	U.7270	)5	2	****	1.285	
-0.2554110E		0.2610093E		0.36518			134.379	44.793	0.4920		3		1.927	
-0.3754077E		0.2113387E		0.43080			150.622	37.656	0.5804		•		2.009	
- 0.5722344E-	03	-0.1735970E-	03	0.59796	66E-(	دو					5_		-3.21I	-
0.1852630E		0.8578297E		0.20415			24.846	4.141	0.2750		6		3.854	
0.13413295		0.1098151E		0.17335			39.307		5 د 23 • 0		7	•	4.496	
		-0.1540200E		0.74215			358.811				8		5.138	-
0.4540991E		-0.2318147E		0.50984			332.956	36.995	0.6869		9	•	5.780	
0.5253604E	03	0.5059731E	03	0.72939	16E	D3 	43.923.	4, 392	0.9828	<u> </u>	10		6.423	
•														
HARMONIC ANALY			SHIP	33				LT 16.0						
CVERALL CYCLIC												•		
ZERU POSITION									•					
-0.4962910E	03			С.			- PH1JC	PSIJC	C7\C7H	X	J	FREC	MENCY	
0.2897129E		-0.6284651E	02	0.29645	09E (	3	347.760	347.760	0.57517	15	1	,	0.642	
-0.299+604E		-0.9094107E		0.31290				98.446	0.0072				1.285	
		0.2270842E		0.25400			110.046	38.982	0.49294		3		1.927	
~U. 113744/E		0.1035712E		0.29153			159.190	39.798	0.56563				2.569	
-0.1139447E -0.2725146E								5. 973					3.211-	
	03	0. 1800591E												
-0.2725146E		0.1800591E		0.59710		32		4.503	0.11589		6		3.854	
-0.2725146E 0.3145935E	02		02		28E 0		27.015			0	6		3.854	
-0.2725146E -0.3145935E 0.5319495E	02 03	0.2712224E	02 01	0.59710 U.12879	28E 0	1	27.015		0.11589	0	. 6 7		3.854 4.496	
-0.2725146E -0.3145935E 0.5319495E 0.1285590E	02 03 03	0.2712224E 0.7718329E	02 01 02	0.59710 U.12879 O.34899	28E 0 05E 0 85E 0	) } }	27.015	0.491 - 43.871	0.11589	0 0 8	. 6 7	٠.	3.854 4.496	

Table III. (Continued)

TEST 16 N = 1	10																
MARMONIC ANALYS			2= 04				o c			16.0			-				
ZEPO POSITION L	JSED	9.51		אווסו				400.00		سيد تسو							
<del></del>		83			<del></del>			PHEJC		<del>-2511C-</del>	,	J70:			<del>- J</del>		UENCY
-0.9289245E	03									*3130	`				•	, ,,,,,	302.461
-0.1218797E		0.22204395				4 E		118.76		118.762		0.00			1		0.620
0.3184436E (															- 5		1.740
0.4853103F		-0.17370+0F				3 (E		255.54		95.213		3.57			3		1.960
0.2032274E 0		-0.5/684715				4 EE		343.37		55.344		0.67	-		4		2.480
-0.1685979E 0		<del>~0</del> :2364823E ~0.4420532E				93E " 57E		-311 : 20 194 : 69		~52.26 <del>0</del> 32.449		. 000			.,		3:100
0.2495104E		0.19577035				6 (E		4.47		0.540		0.055 0.00			·6 7		3.720
-0.1150656E C		=0.22053299		0.11				190.95		23.957		). 031					4.340
-0.6736462F		-0.49454335				• 1E		216.30		24.033		0.02			9		5.550
0.6430397E-0		0.4317540E				4 4 E		89.91		8.991		0.01			10		6.200
HARMONIC ANALYS		= 0.68729		P :	33	T 01	0 C	TR 67	FLT	16.0	TR	31	2 F	L AP	BEND	ST4 43	
ZERO POSITION L	JSED	3.75	LCA	D/IN	LSE	D	2	900.00								-	
		83			CJ			PHIJC		PSIJC	_ (	:375.	MAI		J	FREC	UE NCY
-0.1303492E (		0.10/53/	04				•				_		 		_		0
-C.5019949E C		0.10457415 0.1843157E				3 TE		127.72		127.726		54(			<u>1</u>		0.620
0.8425296E-0						5-1E	04	- 55.49	-	32.746		3:83		•			1.240
	77					3 45	04	247 45			•		7705		_		1 940
-0.6395871F (		-0.1436013E				3 (E 5 (E		267.45		89.150		.581			3		1.860
0.2340988E 0	)4	-0.6728219F	03	0.24	+357	5	04	343.96	5	85.991	(	.99	028	1	_		2.480
0.2340988E 0	)4 )4	-0.6728239F -0.2017373E	03 <del>04</del>	0.24	+ 35 7 + 45 4	5	04 <del>04</del>	343.96 304.39	5 8	85.991 60.379		.995	028	) ,	3 4 	· · · · · · · · · · · · · · · · · · ·	2.480 3.100
0.2340988E 0 0.1381434E 0 -0.2515066E 0	)4 )4 )3	-0.6728239F -0.2017873E 0.2615857E	03 04 02	0.24	+35 7 +45 4 926 7	5	04 <del>04 -</del> 03	343.96 304.39 174.87	5 6 2	85.991 60.379 29.145		0.995 0.11	028 7000 7581	) 	3		2.480 3.100 3.720
0.2340988E 0	)4 )4 )3 )2	-0.6728239F -0.2017873E 0.2615837E -0.41710613	03 04 02 01	0.24 0.24 0.25 0.15	+35 7 +45 4 926 7 563 3	5	04 <del>04</del> 03 02	343.96 304.39 174.87 195.47	5 6 2 5	85.991 60.379 29.145 27.725	1	0.999 0.119	028 7000 7581 5393	·	3 4 		2.480 3.100 3.720 4.340
0.2340988E 0 0.1381434E 0 -0.2515066E 0 -0.1506634E 0	04 04 03 02 02	-0.6728239F -0.2017873E 0.2615857E	03 04 02 01 02	0.24 0.24 0.25 0.15	+35 7 +45 4 926 7 563 3 557 5	5	04 04 03 02 02	343.96 304.39 174.87	5 8 2 5	85.991 60.379 29.145	- 0	0.995 0.11	028 7000 7681 5393	)	3 4 5 6 7		2.480 3.100 3.720
0.2340988E 0 0.1381434E 0 -0.2515066E 0 -0.1506634E 0 -0.3893325E 0	04 03 02 02	-0.6728239F -0.2017973E 0.2615837E -0.4171061E	03 04 02 01 02 02	0.24 0.25 0.15 0.45	435 7 45 4 926 7 563 3 557 5 430 9	5	04 04 03 02 02 02	343.96 304.39 174.87 195.47 211.27	5 6 2 5 3	85.991 60.379 29.145 27.925 26.409		0.999 0.119 0.000	028 7000 7681 5393 535	) 3	3 4 5 6 7		2.480 3.100 3.720 4.340 4.950
0.2340988E 0 0.1381434E 0 -0.2515066E 0 -0.1506634E 0 -0.3893325E 0	04 09 03 02 02	-0.6728239F -0.2017973E 0.2615837E -0.4171061E -0.2365854E -0.1327264E	03 04 02 01 02 02	0.24 0.25 0.15 0.45	435 7 45 4 926 7 563 3 557 5 430 9	5	04 04 03 02 02 02	343.96 304.39 174.87 195.47 211.27 342.57	5 6 2 5 3	85.991 60.379 29.145 27.725 26.409 38.063		0.999 0.119 0.000 0.001	028 7000 7681 5393 535	) 3	3 4 5 6 7 8		2.480 3.100 3.720 4.340 4.950 5.580
0.2340988E 0 0.1381434E 0 -0.2515056E 0 -0.1506634E 0 -0.3875325E 0 0.4227489E 0 -0.7195638E 0	04 04 03 02 02 02 00	- 0.6728239F - 0.20178736 - 0.2615637E - 0.41710613 - 0.23658546 - 0.1327264E 0.33671836	03 04 02 01 02 02 01 SHI	0.24 0.23 0.15 0.44 0.44	+35 7 +45 4 926 7 563 3 5575 +30 9 +43 2	5 SE 7 ZE 7 ZE 0 SE 0 SE 0 SE 0 SE 0 SE 0 SE 0 SE 0 S	04 04 03 02 02 02	343.96 304.39 174.87 195.47 211.27 342.57 102.06	5 6 2 5 3 0 3	85.991 60.379 29.145 27.725 26.409 38.063	T9	0.999 0.000 0.000 0.018 0.018	028 0000 9681 393 3538 119		3 4 5 6 7 8 5 10	STA 43	2.480 3.100 3.720 4.340 4.950 5.580
0.2340988E ( 0.135143E C -0.2515066E ( -0.1506634E ( -0.3893325E C 0.4227489E ( -0.7195638E ( 44PMONIC ANALYS	04 04 03 02 02 00 00	- 0.6728239F - 0.20178736 - 0.2615637E - 0.41710613 - 0.23658546 - 0.1327264E 0.33671836	03 04 02 01 02 02 01 SHI CE 04	0.24 0.23 0.15 0.44 0.44	+35 7 +45 4 926 7 563 3 557 5 +30 9 +43 2	5 9E 7 2E 7 7E 0 5E 0 1E 4 6E 1 4E	04 04 03 02 02 02 01	343.96 304.39 174.87 195.47 211.27 342.57 102.06	5 6 2 5 3 0 3	85.991 60.379 29.145 27.725 26.409 38.063 10.206	T9	0.999 0.000 0.000 0.018 0.018	028 0000 9681 393 3538 119		3 4 5 6 7 8 5 10	STA 43	2.480 3.100 3.720 4.340 4.950 5.580
0.2340988E ( 0.138143E ( -0.2515056E ( -0.1506634E ( -0.3895325E ( 0.4227489E ( -0.7195638E ( 0.4227489E ( -0.7195638E ( 0.4227489E ( -0.7195638E ( 0.4227489E ( -0.7195638E ( 0.4227489E ( -0.7195638E ( 0.4227489E ( -0.7195638E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E ( 0.4227489E	04 04 03 02 02 02 00 00 615 M LOAD	-0.6728249F -0.2017873E 0.2615873E -0.41710615 -0.2365854E -0.1327264E 0.3367183E	03 04 02 01 02 02 01 SHI CE 04	0.24 0.25 0.15 0.45 0.46	+35 7 +45 4 926 7 563 3 557 5 +30 9 +43 2	5 SE 7 2E 7 7E 0 SE 0 SE 0 SE 0 SE 0 SE 0 SE 0 SE 0 S	04 04 03 02 02 02 01	343.96 304.39 174.87 195.47 211.27 342.57 102.06	5 6 2 5 3 0 3	85.991 60.379 29.145 27.725 26.409 38.063 10.206	Ta	0.999 0.000 0.000 0.018 0.018	028 7000 7681 393 3538 119	LAP	3 4 5 6 7 8 5 10		2.480 3.100 3.720 4.340 4.950 5.580
0.2340988E C 0.1381438E C -0.2515066E C -0.1506634E C -0.3895325E C 0.4227489E C -0.7195638E C HARMON IC ANALYS OVERALL CYCLIC RERO POSITION L AJ -0.1133937E C	04 04 03 02 02 02 00 00 615 M LOAD USED	- 0.6728239F - 0.2017573E - 0.2015957E - 0.41710613 - 0.2365854E - 0.1327264E 0.3367183E - 0.54159 8.27	03 04 02 01 02 02 01 SHI C= 04	0.24 0.25 0.15 0.45 0.34	+357 +454 9267 5633 5575 +309 +432	5 SE 7 26 7 72 7 72 0 5E 0 1E 0 4 CE 1 4 CE 1 4 CE	04 04 03 02 02 02 01 0 C1	343.96 30#.39 174.87 195.47 211.27 342.57 102.06	5 6 2 5 3 0 3	85.991 60.379 29.145 27.325 26.609 38.063 10.206	T9	11	9000 9561 9393 9335 9335 9335 9335 9335 9335 933	LAP	3 4 5 6 7 8 5 10	FREC	2.480 3.100 3.720 4.340 4.960 5.580 6.200
0.2340988E 0 0.138143AE 0 -0.25150668 0 -0.1506634E 0 -0.3875325E 0 -0.7195638E 0 -0.7195638E 0 -0.7195638E 0 -0.7195638E 0 -0.7195638E 0 -0.7195638E 0	04 03 02 02 02 00 00 01 15ED	-0.6728239F -0.20178736 -0.2615937E -0.41710613 -0.23858546 -0.1327264E 0.33671836 -0.53159 -0.54159 -0.54159 -0.54159	03 02 01 02 02 01 C= 04 LCA	0.24 0.24 0.15 0.44 0.44 0.44 0.44	+357 +454 9267 5633 5575 +309 +432	5 SE 7 2E 7 1E 0 SE 0 SE 0 SE 0 SE 0 SE 0 SE 0 SE 0 S	04 04 03 02 02 02 01 0 C1	343.96 302.39 174.87 195.47 211.27 342.57 102.06	5 6 2 5 3 0 3	85.991 60.379 29.145 27.725 26.609 38.063 10.206	T9	11	3 F	LAP	3 4 5 6 7 8 5 10	FREC	2.480 3.100 3.720 4.340 4.960 5.580 6.200
0.2340988E 0 0.138143E 0 -0.2515066E 0 -0.1506634E 0 -0.3875325E 0 0.4227489E 0 -0.7195638E 0  4APMON IC ANALYS OVERALL CYCL IC 15FRO POSITION L 0.1133937E 0 -0.9514517E 0 0.7537000E 0	04 03 02 02 02 00 00 01 01 04 03 03	-0.6728239F -0.2017873F -0.20178757E -0.41710615 -0.2365854E -0.1327264E 0.3367183E -0.54159 8.27 -0.9749314E -0.1987275E	03 02 01 02 02 01 SHI CE 04 LCA	0.24 0.25 0.15 0.46 0.34	+35 7 +45 4 926 7 563 3 55575 +30 9 +43 2	5 SE 7 2E 7 7 7 E 0 SE 0 SE 0 SE 0 SE 1 4 E 1 4 E 1 4 E	04 04 03 02 02 02 01 0 C1 -30	343.96 302.39 174.87 195.47 211.27 342.57 102.06 (R 67 0400.00 PHIJC 131.13	5 6 2 5 3 0 3 FLT	85.991 60.379 29.145 27.725 26.409 38.063 10.206 16.0 PSIJC 131.137	T9	11	3 F	LAP	3 4 6 7 8 5 10 8ENC	FREC	2.480 3.100 3.720 4.340 4.950 5.580 6.200
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0.2340988E 0 0.138143E 0 -0.2515066E 0 -0.1506634E 0 -0.3895325E 0 0.4227489E 0 -0.7195638E 0  HARMON IC ANALYS DVERALL CYCLIC 2580 POSITION L 2580 POSITION L 0.1133937E 0 -0.9514517E 0 0.757200E 0 0.16227165 0 0.2071054E 0 0.192259E 0	04 174 175 175 175 175 175 175 175 175 175 175	-0.6728239F -0.20178736 -0.201787876 -0.20158776 -0.41710615 -0.23858546 -0.13272646 0.33671836 -0.13272646 0.33671836 -0.54159 8.27 -0.19872756 -0.14027376 -0.1780296 -0.1747246	03 02 01 02 02 01 SHI CE 04 LCA	0.24 0.24 0.12 0.44 0.44 0.34 0.34	H	5 SE 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	04 04 03 02 02 02 02 01 04 04 04 04 04	343.96 302.39 174.87 195.47 211.27 342.57 102.06 (R 67 0400.00 PHIJC 131.13 69:26 265.81 345.30 345.88 206.05	5 6 2 2 5 3 3 0 3 3 FLT	85.991 60.377 29.145 27.725 26.409 38.063 10.206 16.0 PSIJC 131.13? 34.631 88.605 86.327 34.343	T9	11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 30 30 30 30 30 30 30 30 30 30 30 30	3 F	LAP	3 4 6 7 8 10 8 8 10	FREC	2.480 3.100 3.720 4.340 4.960 5.580 6.200 0.620 1.240 1.850 2.480 3.720
0.2340988E C 0.1381438E C -0.2515066E C -0.1506634E C -0.3875325E C 0.4227489E C -0.7195638E C  HARMON IC ANALYS DVERAL L. CYCL IC ZERO POSITION L -0.1133937E C -0.9514517E C 0.7532000E C -0.1626716E C 0.2071054E C -0.1922596E C -0.2122396E C	04 19 19 19 19 19 19 19 19 19 19 19 19 19	-0.6728239F -0.2017573E -0.201757E -0.41710613 -0.2355854E -0.1327264E 0.3367183E -0.3367183E -0.54159 8.27 -0.5430135E -0.1402737E -0.5430133F -0.1730203E -0.1730203E -0.1730203E	03 02 01 02 02 01 SHI CE 04 LCA	0.24 0.25 0.19 0.44 0.34 0.34 0.34 0.34	+35.7 +35.4 +36.4 +36.3 +35.5 +30.9 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +43.2 +4	5 SE 7 SE 7 SE 7 SE 7 SE 7 SE 7 SE 7 SE	04 04 02 02 02 02 02 01 01 04 04 04 04 04 03	343.96 308.39 174.87 195.47 211.27 342.57 102.06 7 102.06 131.13 69.26 265.81 345.30 318.88 206.05 267.92	5 6 2 2 5 3 0 3 7 FLT	85.991 60.379 29.145 27.725 26.609 38.063 10.206 16.0 PSIJC 131.137 34.631 88.605 86.327 63.773 34.343 38.275	T9	11 11 10 10 10 10 10 10 10 10 10 10 10 1	3 F 19060 3 F 19060 3 F 19060 19060 19060 19060 19060 19060 19060	) ) ) )	3 4 6 7 8 5 10 8 8 8 10	FREC	2.480 3.100 3.720 4.340 4.960 5.580 6.200 0.620 1.240 2.480 3.700 3.720
0.2340988E 0 0.138143E 0 -0.2515056E 0 -0.1506634E 0 -0.3895325E 0 0.4227489E 0 -0.7195638E 0  MARMON IC ANALYS DVERALL CYCLIC ZERO POSITION L 25000000000000000000000000000000000000	04 194 195 195 195 195 195 195 195 195 195 195	-0.6728239F -0.20178736 -0.201787876 -0.20158776 -0.41710615 -0.23858546 -0.13272646 0.33671836 -0.13272646 0.33671836 -0.54159 8.27 -0.19872756 -0.14027376 -0.1780296 -0.1747246	03 02 01 02 02 01 01 SHI C= 04 LCA	0.24 0.24 0.25 0.15 0.44 0.34 0.34 0.21 0.21 0.21 0.21 0.22 0.25 0.25	+357 +354 -7663 -7557 -7557 -7557 -7557 -7557 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -7577 -757	5 SE 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	04 04 02 02 02 02 02 01 04 04 04 04 04 00 03 02	343.96 302.39 174.87 195.47 211.27 342.57 102.06 (R 67 0400.00 PHIJC 131.13 69:26 265.81 345.30 345.88 206.05	5 6 2 2 5 3 0 0 3 FLT 2 2 2 4 5 5 3 8 8 8 9 9 3 3	85.991 60.377 29.145 27.725 26.409 38.063 10.206 16.0 PSIJC 131.13? 34.631 88.605 86.327 34.343	T9	11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 11 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30.493 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 30 30 30 30 30 30 30 30 30 30 30 30 30	3 F 1987 1987 1987 1987 1987 1987 1987 1987	LAP	3 4 6 7 8 10 8 8 10	FREC	2.480 3.100 3.700 4.340 4.950 5.580 6.200 0.620 1.240 1.850 2.480 3.720

Table III. (Continued)

TEST 16	N =	10	(CONTINUED)	:															
HARMON TO	ANAL	/S T S	MODEL CLBTC	15	SHIP	33	T	010	CTR	47	FI T	16.0	TP	41	2 FI /	AP REN	ID 51	ra `1.1	La
			0 = 0.2173											·					
EPO POS	ITION	USED	0.39		LCAD/	IN U	SEC		- 14 150	.00							•		
	8.)		83				3		<u> </u>	41 <b>3</b> C		PSTJC		3/23	XAP			FRE	OUEKCY
-0.524 0.109			-0.3857103	e 03	0	.400	SANG	F na	28	.701	21	85.701	٥	. 395	240	. 1			0.620
- 0.347			0.6057914			· 6 0 8.				202		30.101		.693		-			1.240
-0.150			-0.3128672			. 3 . 7				. 263		21.421		. 3 - 2		3			1.850
0.741			-0.1753136			.791				7.040		6.760		.771	_	4		.:	2.480
0.51÷			-0.2705281			.101				1.655		10.154		.000	000		· ·	<del></del>	3.100
-0.125	62225	03	-0.7001509	E OL	. 0	.125	915 (	E 03	18:	3.165	<b>5</b> 1	30.527	0	. 123	102	6	٠,	-	3.720
0.162	0772E	02	-0.9020129	3E 02	0	.818.	225	E 02	28	1.425	5 4	40.204	0	. 030	717	7	,		4.340
-0.351	4551E	02-	0.4910379	E 02		.603				5.593	3	15.699		. 057					4. 960
0.268			0.4267274			.504				7.852		6.428		.049		5			5.580
0.542	344BE	00	0.9075093	E 01	0	.909	1 29 4	E 01	. 80	.580	)	P 658	0	.008	968	10			6.200
. 1														-					
			<del></del>		<u> </u>				<del></del>										
			MODEL CL870 D = 0.1921		SHIP 04	33	Ţ	010	CTR	67	FLT	16.0	TR	34.	2 CH(	ORD BE	ND S	STA 2	21.
ERO POS	ITION	USED	3.11		LCAD/	IN U	SED		- 20 30 0										
								/											
0.722	4J 2643F	03	нJ				.J —		19	TJC		PSIJC		1321	XAP		-	FRE	DUENCY
			-0.1879653	E 03	0	.727	569 2	E 03	345	.030	34	45.030	1	.000	000	1		200	0.620
-0.350			-0.2485853			.437				.621		07.31T		-601					1.240
-0.267			0.1495169			.306				.820		50.273		. 421		. 3			1.860
-0.229			0.7929369			. 241				0.845		40.212		. 332					-2.480
0.318			0.3933937			.505				7.789		10.193		675		. 5		<del></del>	3.100
0.394			0.12321+1			.129				2.683		12.114		.177		< 6			3.720
-0.785			0.2279311			. 241				.012		15.573		. 331		7			4.340
0.216			-0.140301			.257				.039		40.890		. 35-		8			4. 960
0.106			0.2965404			.315				.316		7.813		. 432		9	ı		5.580
.0.325	0479E	03	0.2967520			.440	33 €	E 03	42	. 394	, ,	4.239	Ó	. 604	855	10	}	;	6.200
				-				<del>-</del> -				· .	<del></del>				-	-	
			·				· 		· · ·										
			MJDFL CL870 D = 0.1181		SHIP 04	33	Ť	010	CTP	67	FLT	16.0	TR :	3 9	2 CH	IPD BE	ND S	STA 6	9
ERO POS	ITION	USED	1.15		LCAD/	IN L	SED		16 200	.00		<del></del>							
	AJ		83						PI	175-	-	PSTJC	С.	3753	4AX			FRE	OUE NCY
	5470E				_		•												
-0.534			-0.5133961			-304				261		50.281		.820		<u> </u>			0.620
0.259	7568E		-0.2C112D+			. 24 29				. A70		17.735		.655					1.240
-0.534 0.259 -0.136	7568E 3202E				0	. 1F8(	1253	E 03		959		16.653		-507		3			1.860
-0.534 0.259 -0.136 -0.143	7568E 3202E 9490E	03	0.1209636						140	.663	4	<b>+2.</b> +16		. 4 - 1		- 4			2.480
-0.534 0.259 -0.136 -0.143 -0.160	7568E 3202E 3490E 3600E	03 03	0.1209636	5 C2	0	. 16 36													
-0.534 0.259 -0.136 -0.143 -0.160	7568E 3202E 9490E 960UE 7134E	03 03	0.1209636 0.2935997 0.2182394	5 C2	<u>0</u>	. 16 36 . 26 91	697	F. 03	4 9	.000		9.800		.779		5			3.100
-0.534 0.253 -0.135 -0.143 -0.160 0.180	7568E 3202E 9490E 9600E 7134E 9323E	03 03 <del>03</del> 01	0.1209636 0.2935997 0.2182394 0.2777859	5 C2 5 O3 F O2	- 0 0	.1636 .2891 .2875	74 5	F 03	75	.000	, 1	12.501	0	.077	۹69	6	, .		3.100 3.720
-0.534 0.259 -0.136 -0.143 -0.160 0.180 0.743 -0.534	7568E 3202E 9490E 9600E 7134E 9323E 5289E	03 03 03 01 01	0.1209636 0.2935997 0.2182394 0.2777859 0.7993391	5 C2 5 O3 F O2 5 O2	0 0 0	.1636 -2691 .2975 .8011	69 74 9 74 9	E 02 E 02	49 75 93	.000 .007	, 1	12.501 13.404	0	.077	569 090	6	, .		3.100 3.720 4.340
-0.524 0.259 -0.136 -0.143 -0.160 0.189 0.743 -0.534 0.142	7568E 3202E 9490E 9600E 7134E 9323E 5289E =315E	03 03 03 01 01 03	0.1209636 0.2935997 0.2182394 0.2777859 0.7993391	5 C2 5 O3 F O2 5 O3	0 0 0	.1636 .2891 .2875 .8011	697 74 9 24 3 33 1	F 03 E 02 E 02 E 03	49 75 93	.000 .007 .826	- 1	12.501 13.404 39.617	0	.077 .215 .527	569 090 589 —	6 7 9			3.100 3.720 4.340 4.960
-0.534 0.259 -0.136 -0.143 -0.160 0.180 0.743 -0.534	7568E 3202E 9490E 9600E 7134E 9323E 93289E 9315E 7800E	03 03 03 01 01 03	0.1209636 0.2935997 0.2182394 0.2777859 0.7993391	5 C2 5 O3 F O2 5 O3 E O3	0 0	.1636 -2691 .2975 .8011	74 9 . 24 3 . 33 1 . 14 9	E 03 E 02 E 03 E 03	75 75 93 316	.000 .007	1	12.501 13.404	0 0 0	.077	569 090 589 516	6			3.100 3.720 4.340

Table III. (Continued)

TEST 16 N = 11	· · · · · ·	•							
HARMONIC ANALYSI		SHIP 05 05	33 1	010	CTR 68	FLT 16.0	TR 6 1 FL	AP BENC	STA 43
PERO POSITION US	ED 9.51	LEAD	IN USE	;	- 26 400 .00				
AJ	<u> </u>		C J		<del>ритас</del>	PSIJC	CJ/CJYAX		FREQUENCY
0.1043374E 03 -0.1047578F 04		Λ6 6	0.435028	CE 04	103.934	103.734	0.932376	1	0.612
-0.7276340F-03			0.169792					<del>;</del>	1.223
0.6477312E 03			0.21233					3	1.835
0.14259925 04			0.15015				0.339074	4	2.446
0.2851314E 04			0.442833	3"(E"04	310.251	62.050	1.030000	5	3.058
-0.1125785E 03	-0.2105118E	03	0.238724	CE 03	241.863		0.053908	é	3.670
0.15165268 02			0.445019				0.010049	7	4.281
-0.1113572E 03			0.131970					8	4.873
-0.5403584E 01			0.12223					9	5.505
-0.4011751E 02	-0.4687339E	01 (	0.403903	1 1 0 2	186.664	15.666	0.009121	10	6.116
VERALL CYCLIC L			/IN USEC	 )	25 900 .00	<del></del>	·		<del></del>
-0.7325004E 03			c).		тритуст	PSIJC	CJ75J4FX	J	FREQUENCY
-0.6462245E 03		04	0.250293	17F 04	105.010	105.010	0.862638	i	0.612
0.3521694E 03			7.212379					<del></del> _	1.223
-0.1395359E 03	-0.1428493E	34 (	0.143529	2E 04	264.421	88.140	0.495574	3	1.835
0.1524310E 04			0.183643				0.633616	4	2.4.46
0.1532645E 04			0.770149						3.058
-0.4247549E 03			0.500490				0.172/94	6	3.670
-0.5447957E 02	-0.27451335		0.279965				0.076490	7	4.281
-0.7220714E 02 -0.2747252E 02			D.722844 D.31777]				0.024913	8	4.893 5.505
0.45°569°E 02			0.463591				0.015978	10	6.116
					. ,	• ,			
HARMONIC ANALYSI		SHIP 15 04	33 1	010	CT 9 68	FLT 16.0	TR 11 3 FL	AP BEND	STA 43
TERO POSITION US	ED 8.27	LOAD	/IN USE	•	- 30 400 .00				
-0.2477682E 03	83		C3		TI THE	PS11C	CJ/SJVAX	J	FREQUENCY
-0.7 C49643E 03	0.25352698	0+ 1	0.263143	(E 04	105.537	105.537	0.891538	1	0.612
0.3721716E 02			0.217596					<del></del>	1.223
-0.1735341E 03	-0.1549434E		0.155912				0.527999	3	1.935
0.1649521E 04	-0.10992935		0.10999				0.677247	4	2.446
0.1732997E 04		04 (	3.295156	JE U4	305.552			5	3.058
-0.1235350F 03			317261				0.107489	ė	3.670
0.1124653E J3	-0.17244615		0.205377				0.050752	7	4. 281
~~~0.3472044E~02			7.758995					8-	4.893
A / 7/ ***									
-0.4762336E 01 0.3202745E 02	0.3776451E -0.4873557E		0.380636 0.583174		97.187 303.312		0.012896 0.019756	9 10	5.505 6.11s

Table III. (Concluded)

	. 11	(CONTINUED)								
TEST 16 N		(CONTINUED)								
		MODEL CL9705 10 = 0.21090		33 T	010	CTP 6P	FLT 16.0	TR 41 2 FL	AP BEND	STA 118
ZERO POSITION	USEC	0.3c	LCAD	/IN USED		-14150.00				
-0.39225905	- 03	87		<u> </u>		PHIJC	P\$ 1.J.C	CJ/CJYAX	J	FREQUENCY
0.16583576		-0.34911195	02	0.170450	2F 03	348.181	348.181	0.152660	1	0.612
0.21223765		0.69347515		0.725241						1.223
-0.13952828		-0.313C474E		0.342734	1E 03			0.336963	3	1.835
C.5593318E		-0.24865955		0.612085				0.5-8202	4	2.446
C.5435351E		-0.57530035		0.111653				1.000000	5	3.058
-0.1640567E	03	-0.12076725		0.203715	CE 03	216.358	36.060	0.132453	6	3.670
-C.1706527E		-0.17253545	03 -	0.173377	3E 03	264.351	37.764	0.15=282	7	4.281
0.1439274E	02	0.46633335	.05	0.483042			9.105	0.0/3711		4. 893
0.26381616	02	0.50646735	02	0.571058	1E 02	62.485	6.743	0.051146	9	5.505
.0.18712136		0.17551866	02	0.256556	2E 02	43.167	4.317	0.022978	10	6.116
					•					
HERMONIC ANAL		MODEL CL8705		33 T	010	CT 9 68	FLT 15.0	TR 34 2 CH	OPD BEND	STA 21.
ZERO POSITION	USEC	3.11	LCAD	VIN USED		- 20 300 . 00				·
		- FJ		CJ.		PHTJC	PSIJC	CJ/SJYAX		FREQUENCY
0.63385198						- Line	P313C	C3/33 18 A	J	L VERREIL
						ALTIC .	F313C	C3/33 14X	•	T KE QUENCT
0.72975298	03	-0.21613518		0.761087	E 03	343.502	343.502	0.805293		0.612
0.7297529E	03	-0.32714ZHE	03	0.761087 0.437573	E 03	343.502 228.395	343.502 114.193	0.805293	1 2	
0.7297529E -0.2905996F -0.3718455E	03 03 03	-0.327142HE 0.2342331E	03 03	0.761087 0.437573 0.439470	2E 03 2E 03 2E 03	343.502 228.395 147.792	343.502 114.193 49.264	0.805293 0.452969 0.464996	1	0.612 1.223 1.835
0.7297529E -0.2905996F -0.3718455E -0.25645005	03 03 03 03	-0.32714ZHE 0.2342331E 0.1522621E	03 03 03	0.761087 0.437573 0.439470 0.305164	2E 03 5E 03 2E 03 6E 03	343.502 228.385 147.792 147.378	343.502 114.193 49.264 36.970	0.805293 0.462989 0.464996 0.322889	1 2	0.612 1.223 1.835 2.446
0.72975298 -0.29059968 -0.37184558 -0.25645008	03 03 03 03	-0.327142HE 0.2342331E 0.1522621E 0.3204129E	03 03 03	0.761087 0.437573 0.439470 0.305164	2E 03 2E 03 2E 03 6E 03	343.502 228.385 147.792 147.378	343.502 114.193 49.264 36.970	0.805293 0.462989 0.464996 0.322889	1 2 3	0.612 1.223 1.835
0.72975298 -0.29059968 -0.37184558 -0.25645005	03 03 03 03	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.2252518E	03 03 03 03	0.761087 0.437573 0.439470 0.305164 0:432950 0.225541	2E 03 2E 03 2E 03 4E 03 4E 03 5E 03	343.502 228.385 147.792 147.378 40.541 92.909	343.502 114.193 49.264 36.970 8.108 15.485	0.805293 0.462969 0.464996 0.322889 0.521582 0.233642	1 2 3 4	0.612 1.223 1.835 2.446 3.058 3.670
0.72975298 -0.29059968 -0.37184558 -0.25645008 0.37451358 -0.11:44785	03 03 03 03 03 03 02 02	-0.3271423E 0.2342331E 0.1522621E 0.3204129E 0.2252514E 0.2731677E	03 03 03 03 03 02	0.761087 0.437573 0.439470 0.305164 0.525541 0.212560	2E 03 2E 03 2E 03 4E 03 4E 03 5E 03 5E 03	343.502 228.385 147.792 147.378	343.502 114.193 49.264 36.970 8.108 15.485	0.805293 0.462989 0.464996 0.322889	1 2 3 4	0.612 1.223 1.835 2.446 3.058
0.72975298 -0.29959988 -0.37188558 -0.25645008 0.37481358 -0.11:44788 -0.18967508	03 03 03 03 03 02 03	-0.327142HE 0.2342331E 0.1522621E 0.3204129E 0.225251AE 0.7731677E -0.265H0I3E	03 03 03 03 03 02 03	0.761087 0.437573 0.439470 0.305164 0.72950 0.225541 0.212560	2E 03 2E 03 2E 03 4E 03 5E 03 5E 03 1E 03	343.502 728.385 147.792 147.378 40.541 92.909 152.753 310.551	343.502 114.193 49.264 36.970 8.108 15.465 21.922 38.819	0.835293 0.464996 0.322889 0.521582 0.234642 0.224907 0.370137	1 2 3 4 7 6 7	0.612 1.223 1.835 2.446 3.058 3.670 4.281
0.72975296 -0.25959966 -0.37184556 -0.25645009 -0.37461356 -0.11947506 -0.18967506 -0.19262376	03 03 03 03 03 02 03 03 03	-0.327142HE 0.2342331E 0.1522621E 0.3204124E 0.225251AE 0.2731677E -0.2658013E -0.3429961E	03 03 03 03 03 03 02 03	0.761087 0.437573 0.439470 0.305164 0.752950 0.225541 0.212560 0.349818 0.393491	2E 03 2E 03 2E 03 4E 03 5E 03 5E 03 1E 03 6E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656	343.502 114.193 49.264 36.970 8.108 15.465 21.822 35.819 26.740	0.805293 0.464996 0.322889 0.521582 0.234642 0.224907 0.370137 0.416335	1 2 3 4 6 7 8	0.612 1.223 1.835 2.446 3.058 3.670 4.281
0.7297529E -0.2795998F -0.3718655E -0.25645005 0.3746135E -0.11:4478E -0.1896750E 0.2274269E	03 03 03 03 03 02 03 03 03	-0.327142HE 0.2342331E 0.1522621E 0.3204129E 0.225251AE 0.7731677E -0.265H0I3E	03 03 03 03 03 03 02 03	0.761087 0.437573 0.439470 0.305164 0.72950 0.225541 0.212560	2E 03 2E 03 2E 03 4E 03 5E 03 5E 03 1E 03 6E 03	343.502 728.385 147.792 147.378 40.541 92.909 152.753 310.551	343.502 114.193 49.264 36.970 8.108 15.465 21.822 35.819 26.740	0.835293 0.464996 0.322889 0.521582 0.234642 0.224907 0.370137	1 2 3 4 7 6 7	0.612 1.223 1.835 2.446 3.058 3.670 4.281
0.7297529E -0.2795995F -0.3718455E -0.2564500E -0.3745133E -0.114478E -0.1896750E -0.22774269E -0.1928237E	03 03 03 03 03 02 03 03 03	-0.327142HE 0.2342331E 0.1522621E 0.3204124E 0.225251AE 0.2731677E -0.2658013E -0.3429961E	03 03 03 03 03 03 02 03	0.761087 0.437573 0.439470 0.305164 0.752950 0.225541 0.212560 0.349818 0.393491	2E 03 2E 03 2E 03 4E 03 5E 03 5E 03 1E 03 6E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656	343.502 114.193 49.264 36.970 8.108 15.465 21.822 35.819 26.740	0.805293 0.464996 0.322889 0.521582 0.234642 0.224907 0.370137 0.416335	1 2 3 4 6 7 8	0.612 1.223 1.835 2.446 3.058 3.670 4.281 4.893 5.505
0.7297529E -0.2905995F -0.37184555 -0.25645009 0.3748133E -0.1144785 -0.1896750E -0.25774269E -0.1928237E -0.1928237E 0.8217551E	03 03 03 03 03 03 02 03 03 03	-0.327142HE 0.2342331E 0.1522621E 0.3204124E 0.225251E 0.9731677E -0.2658013E -0.3429961E 0.4663428E	03 03 03 03 03 02 03 03 03	0.761087 0.437573 0.439470 0.305164 0.722950 0.225541 0.212560 0.349818 0.393491	2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601	343.502 114.193 49.264 36.970 8.108 15.465 21.922 3E.819 26.740 2.960	0.805293 0.464996 0.322889 0.521582 0.234642 0.224907 0.370137 0.416335	1 2 3 4 6 7 8 9	0.612 1.223 1.835 2.446 3.059 3.670 4.281 4.893 5.505 6.116
0.7297529E -0.290995E -0.3718455E -0.2964500E 0.3746139E -0.11:4478E -0.184750E -0.1926237E 0.8217551E	03 03 03 03 03 02 03 03 03 03	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.225251 E 0.7731677E -0.2657013E -0.3429951E 0.4667428E	03 03 03 03 03 02 03 03 03 03 03	0.761087 0.437573 0.439470 0.305164 0.722950 0.225541 0.212560 0.349818 0.393491	2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 0E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601	343.502 114.193 49.264 36.970 8.108 15.465 21.922 3E.819 26.740 2.960	0.805293 0.452989 0.464996 0.322889 0.721582 0.234642 0.224907 0.370137 0.416335 1.000000	1 2 3 4 6 7 8 9	0.612 1.223 1.835 2.446 3.053 3.670 4.281 7.873 5.505 6.116
0.7 2975 298 -0.290 5995 F -0.371 8455 F -0.25645005 -0.3746135 F -0.11:4778 F -0.188-7508 -0.1926237 F -0.1926237 F 0.8217551 F MARWONIC AVAL CVERALL CYCLI ZERO POSITION	03 03 03 03 03 03 03 03 03 03	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.225251 E 0.7731677E -0.2657013E -0.3429951E 0.4667428E	03 03 03 03 03 02 03 03 03 03 03	0.761087 0.437573 0.439470 0.305164 0.72950 0.225541 0.212560 0.393491 0.945106	2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.565 29.601	343.502 114.193 49.264 36.970 8.108 15.465 21.922 3E.819 26.740 2.960	0.805293 0.452989 0.464996 0.322889 0.721582 0.234642 0.224907 0.370137 0.416335 1.000000	1 2 3 4 5 6 7 8 9 10	0.612 1.223 1.835 2.446 3.053 3.670 4.281 7.873 5.505 6.116
0.7 297529E -0.2905996F -0.3712655E -0.2564500E 0.3762135E -0.1896750E -0.1896750E -0.1926237E 0.8217561E HARMONIC ANAL CVERALL CYCLI ZERO POSITION AJ -0.6 215623E	03 03 03 03 03 03 03 03 03 03	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.225251 E 0.7731677E -0.265 ROISE -0.3429961E 0.466 3428E MODEL CL9705 D = 0.15438	03 03 03 03 03 02 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.722950 0.225541 0.212560 0.349818 0.393491 0.945106	2E 03 2E 03 2E 03 4E 03 4E 03 2E 03 2E 03 4E 03 010	343.502 228.385 147.792 147.378 40.547 92.909 152.753 310.557 240.656 29.601 CTd 68	343.502 114.193 49.264 36.970 8.108 15.465 21.922 3E.819 26.740 2.960	0.805293 0.464996 0.464996 0.322889 0.721582 0.234642 0.224907 0.416335 1.000000	1 2 3 4 6 7 8 9 10	0.612 1.223 1.835 2.446 3.059 3.670 4.281 4.893 5.505 6.116
0.7 297529E -0.2505996F -0.3718455E -0.2564500E 0.3742135E -0.11:4478E -0.11:4478E -0.192750E -0.192237E 0.8217551E HARWON IC AVAL CVERAL L CYCL I ZERO POSITION -0.6215623E -0.6215623E	03 03 03 03 02 03 03 03 03 03 VSIS C LOS	-0.327142HE 0.2342331E 0.1522621E 0.3204129E 0.225251E 0.2731677E -0.265 ROITSE -0.3429951E 0.465 3428E MODEL CL8705 0 = 0.154389 1.15 BJ -0.3479293E	03 03 03 03 02 03 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.7225541 0.212560 0.349818 0.349818 0.945106	2E 03 2E 03 2E 03 2E 03 2E 03 3E 03 3E 03 3E 03 3E 03 3E 03	343.502 Z28.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601 CTd 68 16200.00 PHIJC 353.268	343.502 114.193 49.264 36.970 8.108 15.465 21.922 36.819 26.740 2.960 FLT 16.0	0.805293 0.452989 0.464996 0.322889 0.721582 0.234642 0.224907 0.370137 0.416335 1.0000000	1 2 3 4 7 8 9 10	0.612 1.223 1.835 2.446 3.053 3.670 4.281 7.893 5.505 6.116
0.7 297529E -0.2905995F -0.3712455E -0.25645005 -0.3745139E -0.1894750E -0.1894750E -0.1926237E -0.1926237E 0.8217551E HARMONIC AVAL CVERALL CYCLI ZERO POSITION -0.6 216623E -0.1336327E	03 03 03 03 02 03 03 03 03 VSIS C LOA	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.225251E 0.9731677E -0.2653013E -0.3429961E 0.4663428E MODEL CL8705 0 = 0.154381 1.15 BJ -0.3479293E -0.2285317E	03 03 03 03 03 02 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.7225541 0.212560 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818	2E 03 2E 03 2E 03 2E 03 2E 03 3E 03 2E 03 2E 03 2E 03 2E 03 2E 03	343.502 228.395 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601 CTd 68 16200.00 PHI JC 353.268 239.795	343.502 114.193 49.264 36.970 8.108 15.465 21.922 3E.819 26.740 2.960 FLT 15.0	0.805293 0.462989 0.464996 0.322989 0.721582 0.234642 0.224907 0.370137 0.415335 1.0000000	1 2 3 4 5 6 7 8 9 10	0.612 1.223 1.835 2.446 3.053 3.670 4.281 4.893 5.505 6.116 STA 69
0.7 297529E -0.2795995F -0.37184556 -0.3764139E -0.11:44786 -0.184750E -0.1926237E -0.1926237E 0.8217551E MARMONIC AVAL CVENAL CYCLI ZERO POSITION -0.6315623E -0.1336327E -0.1539235E	03 03 03 03 03 03 03 03 03 03 USEO	-0.3271427E 0.2342331E 0.1522621E 0.3204127E 0.225251E 0.7731677E -0.3657013E -0.3429951E 0.4667428E MODEL CL8705 D = 0.154781 1.15 BJ -0.3479278E -0.2285317E 0.1425778E	03 03 03 03 03 02 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.722950 0.225541 0.212560 0.393491 0.945106 33 T /IN USED	2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601 CTd 68 16200.00 PHIJC 353.268 239.795 137.173	343.502 114.193 49.264 36.970 8.108 15.485 21.922 36.819 26.740 2.960 FLT 15.0	0.805293 0.464996 0.322889 0.721587 0.234642 0.224907 0.370137 0.416335 1.000000 TR 38 2 CH	1 2 3 4 7 8 9 10	0.612 1.223 1.835 2.446 3.058 3.670 4.281 4.893 5.505 6.116 STA 69
0.7 297529E -0.2905995F -0.3712455E -0.25645005 -0.3745139E -0.1894750E -0.1894750E -0.1926237E -0.1926237E 0.8217551E HARMONIC AVAL CVERALL CYCLI ZERO POSITION -0.6 216623E -0.1336327E	03 03 03 03 03 03 03 03 03 VSIS C LOA 03 03 03	-0.3271427E 0.2342331E 0.1522621E 0.3204127E 0.2252514E 0.7731677E -0.2657815E 0.4663428E MODEL CL8705 D = 0.15438 1.15 BJ -0.3479293E -0.285317E 0.1425778E 0.5083054E	03 03 03 03 03 02 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.7225541 0.212560 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818 0.349818	2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03 2E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.557 240.656 29.601 CTR 68 16200.00 PHI JC 353.268 239.795 137.173 162.709	343.502 114.193 49.264 36.970 8.108 15.465 21.922 36.819 26.740 2.960 FLT 15.0 PSIJC 353.268 115.898 45.724 40.677	0.805293 0.452989 0.464996 0.322889 0.721582 0.234642 0.224907 0.370137 0.416335 1.0000000 TR 36 2 CH	1 2 3 4 6 7 8 9 10	0.612 1.223 1.835 2.446 3.053 3.670 4.281 7.873 5.505 6.116 STA 69
0.7 297529E -0.2905996E -0.3718455E -0.2564500E -0.3764135E -0.1894750E -0.1894750E -0.189237E 0.9217551E HARMON IC AVAL CVESAL L CYCL I ZERO POSITION -0.6315623E -0.1336327E -0.153235E -0.163238E -0.1772275E	03 03 03 03 03 03 03 03 03 03 03 03 03 0	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.225251E 0.731677E -0.265 ROISE -0.3429961E 0.4663428E MODEL CL8705 0 = 0.154389 1.15 BJ -0.3479293E -0.2285317E 0.1425778E 0.5083054E 0.2285005E	03 03 03 03 02 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.72950 0.225541 0.212560 0.349818 0.393491 0.945106 7/IN USED 0.254432 0.209738 0.171017	2E 03 2E	343.502 Z28.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601 CTd 68 16200.00 PHI JC 353.268 239.795 137.173 162.709 51.903	343.502 114.193 49.264 36.970 8.108 15.485 21.922 36.819 26.740 2.900 FLT 16.0 PSIJC 353.268 115.898 45.724 40.677 10.381	0.805293 0.452989 0.464996 0.322889 0.721582 0.234642 0.224907 0.370137 0.416335 1.0000000 TR 38 2 CH	1 2 3 4 7 8 9 10 0RO BEND	0.612 1.223 1.835 2.446 3.053 3.670 4.281 4.893 5.505 6.116 STA 69
0.7 297529E -0.2505996F -0.3718455E -0.2564500E 0.3704135E -0.1894750E -0.1894750E -0.189237E 0.8217551E MIRMONIC AVAL CVERALL CYCLI ZERO POSITION -0.6316623E -0.133627E -0.1535235E -0.1632983E	03 03 03 03 03 03 03 03 03 03 03 03 03 0	-0.3271427E 0.2342331E 0.1522621E 0.3204127E 0.2252514E 0.7731677E -0.2657815E 0.4663428E MODEL CL8705 D = 0.15438 1.15 BJ -0.3479293E -0.285317E 0.1425778E 0.5083054E	03 03 03 03 03 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.752950 0.225541 0.212560 0.393491 0.945106 33 T /IN USED CJ 0.265420 0.209738 0.171017 0.709483 0.719026	2E 03 2E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601 CTd 68 16200.00 PHI JC 353.268 239.795 137.173 162.799 51.903 67.654	343.502 114.193 49.264 36.970 8.108 15.465 21.822 3E.819 26.740 2.960 FLT 15.0 PSIJC 353.268 115.878 45.724 40.677 10.381 11.276	0.805293 0.464996 0.322889 0.721587 0.234642 0.224507 0.415335 1.000000 TR 38 2 CH CJ7_JYAX 0.519160 0.452667 0.356971 0.299222 0.508248 0.125905	1 2 3 4 6 7 8 9 10	0.612 1.223 1.835 2.446 3.059 3.670 4.281 7.893 5.505 6.116 STA 69
0.7 297529E -0.2905995F -0.3718455E -0.2564500E -0.3748135E -0.1894750E -0.1894750E -0.1926237E -0.1926237E 0.9217551E #4R MON IC AVAL CVECAL L CYCL I ZERO POSITION -0.6316623E -0.1336327E -0.153235E -0.1632938E -0.1632938E -0.2732581E	03 03 03 03 03 03 03 03 03 03 03 03 03 0	-0.3271427E 0.2342331E 0.1522621E 0.3204127E 0.225251E 0.7731677E -0.3657013E -0.3429951E 0.4663428E MODEL CL8705 D = 0.154381 1.15 BJ -0.347923E -0.2285317E 0.1425778E 0.508305E 0.5650335E 0.5650335E 0.8137402E	03 03 03 03 03 03 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.7225541 0.212560 0.349818 0.393491 0.945106 33 T /IN USED 0.265720 0.209738 0.171017 0.7790483 0.719026 0.1-9869	2E 03 2E 03	343.502 228.385 147.792 147.378 40.547 92.909 152.753 310.557 240.656 29.601 CTd 68 16200.00 PHI JC 353.268 239.795 137.173 162.709 51.903 67.654 140.865	343.502 114.193 49.264 36.970 8.108 15.485 21.922 36.819 26.740 2.960 FLT 15.0 PSIJC 353.268 116.898 45.724 40.677 10.381 11.276 20.981	0.805293 0.464996 0.322889 0.721582 0.234642 0.224907 0.370137 0.416335 1.000000 TR 32 2 CH CJ/CJVAX 0.519160 0.652667 0.356371 0.299222 0.508288 0.125905 0.250471	1 2 3 4 6 7 8 9 10 0RD BEND	0.612 1.223 1.835 2.446 3.059 3.670 4.281 4.893 5.505 6.116 STA 69 FREQUENCY 0.612 1.223 1.835 2.446 3.058 3.670 4.281
0.7 297529E -0.2905996F -0.3718955E -0.2564500E 0.3764135E -0.1896750E -0.1896750E -0.1926237E 0.9217561E MARMONIC AVAL CVERALL CYCLI ZERO POSITION -0.6315623E -0.1535235E -0.1535235E -0.1535235E -0.1732275E -0.2733581E -0.2733581E -0.1735525	03 03 03 03 03 03 03 03 03 03 03 03 03 0	-0.3271428E 0.2342331E 0.1522621E 0.3204129E 0.225251E 0.7731677E -0.2653013E -0.3429951E 0.4653428E MODEL CL8705 D = 0.15438 1.15 BJ -0.3479293E -0.2285317E 0.1425778E 0.5083054E 0.22850055 0.5650335E	03 03 03 03 02 03 03 03 03 03 04 LCAD	0.761087 0.437573 0.439470 0.305164 0.752950 0.225541 0.212560 0.393491 0.945106 33 T /IN USED CJ 0.265420 0.209738 0.171017 0.709483 0.719026	2E 03 2E 03	343.502 228.385 147.792 147.378 40.541 92.909 152.753 310.551 240.656 29.601 CTd 68 16200.00 PHI JC 353.268 239.795 137.173 162.799 51.903 67.654	343.502 114.193 49.264 36.970 8.108 15.485 21.922 36.819 26.740 2.900 FLT 15.0 PSIJC 353.268 115.898 45.724 40.677 10.381 11.276 20.981 35.418	0.805293 0.464996 0.322889 0.721587 0.234642 0.224507 0.415335 1.000000 TR 38 2 CH CJ7_JYAX 0.519160 0.452667 0.356971 0.299222 0.508248 0.125905	1 2 3 4 6 7 8 9 10 0RO BEND	0.612 1.223 1.835 2.446 3.059 3.670 4.281 7.893 5.505 6.116 STA 69

Table IV. 33-Foot 3-Blade Rotor Reduced Experimental Blade Flap Bending Moment Data

TEST 1	ž BL/	ADE 1	r/R = .2	117	-													
TABLE	1Va															•		
N	**0	DFL	нас	DEF	PIS	DEI.	112C	DEL	1125	DFL	1130	nel.	1150	net	*140	DEL	1145	, net
	770.		-11184.	20.	1434.	442.	343.	-38.	1750.	186,	47.	56.	577.	8.	-107.	70.	hor.	
? -17 3 -11		-10. -368.	11796. -2020.	35. 585.	182.	267. 580.		-435. 84.	-2461. -151.	?81, -105,	385. 26.	42. -108.	319. 367.	73. -76.	367. -3.	-7A. -5A.	742. 734.	256. -68.
	497.	-121.	\$967.	914.	-4157.	-768.		-193.	-1809.	-358,	259.	-13.	197.	-137.	380.	122.	442.	60.
5 -10		-146.	-4360.	-756.	1947.	106.	-432.	? 2.	213,	167.	25.	-23.	477.	19.	-174.	-204.	265.	-30.
6 -11 7 -11		-444. -735.	-631. 1611.	242. 214.	2245. 823.	-327. -251.	-875. -G84.	-300, 489,	-233. -1361.	165. -171.	138. 247.	-5. 32.	419. 211.	-1?. -150.	59. 189.	-11.	311. 356.	-25. -28.
8 -1		-130.	-2457.	285.	1027.		-1095.	-549.	-168.	-137.	130.	7.	LOR.	-60	-37.	-60	348.	41.
9 -12	2780.	34.	2280.	855.	-4170.	-691.	-2013.	-295.	-853.	- 49.	175.	-44.	494.	50.	173.	-2.	191.	-143.
10 -11		1116.	1627.	-1915.	-9204.	1537.		862.	-846. 246.	235,	311.	7.	473. 386.	124. -79.	286.	-b.	184.	-139.
11 -17		-128. -523.	-3780. -2286.	310. 651.	1385. 3563.	-475. -1237.	-981. 36.	-571. 93.	-283.	- 249.	167. 173.	65. 75.	589.	138.	82. 61.	61.	385.	64.
13 -	181.	219.	-3307.	-462.	10174.	404.		491.	-312,	-203.	112.	50.	51.8	94.	-19.	24.	222.	-127.
14 -6	5376.	1064.	-3425.	-104R.	14592.	1107.	1580.	339.	5.	246.	-38.	-80.	43R.	-12.	-65.	n,	262.	-113.
SIGNA		512.		764.		749.		413.	•	204.		57.		87.		76.		131.
TARLE	1AP		nzc		MIS		нас		1425		1130		H35		HPC		į, m	45
390	2752F- 15665- 155955	01 .	161941E- 1567437E 165789RF	00 .101	01134E-0: 104720E0: 508089E0:	20	6438E-02 0103E-01 7054E-01	-, 79	4280F-02 8295E-01 8382E-01	, 522	75558-6 83318-6 91818-6	12 5	770805- 669125- 570615-	ni . B	307230 730163 693926	E-02	59915	355-02
TABLE	۱۷c															٠.	٠ ;	
PSI		110	4	hi/4110	dir	/dT15												
0.		305625		105650451		1663F-0										••		
20. 40.		81751F 34161F		666589F(656899F(17339F0 23792F0								• •				
60.		189651E		23786150		1867850												
80.	6	783705		325136E0		7023650						*		٠.				
100.		771215		426665-		2340520												
120. 140.		151657F 111358F		1617775-0 27718850		L914859 6389058												
160.		81790F		7100898		1077E										·		
180.		19588E		712394EC		96784E0												
200.		18939E		211704E		18805E0								*				
220. 240.		98488F 85927F		1031729E1 1978579E1		9291F-0 35057FN												
260.	9	228375	-02 -, 2	186912E0	10 24	5858RFQ										· .		
280.		627675		72482E-0		6997E										•		
300. 320.		192445		600606E		7511350	JU											1.
		1540825	-01 75	1358370E0	75 - AN	3524855	10											

Table IV. (Continued)

TEST	12 .	ll Áne J	r/R = .	217													
		(CONTINU		•••												-	
N	110	DEL	#10	DEL	115	DEL	1120	DEL	1125	DFL	1130	DEI,	1135	nri.	HEC DI	L "45	DEL.
,	-1305.	-88.	-8.168.	-84.	3837.	401.	1156.	28.	1235.	-13	358.	zni.	512.	-756.	105. 10	a. 432.	116.
2 -	14841.	570.	13 167.	756.	-2646.	526.		-48.	-2550,	890.	312.	227.	-116.	260.	606. 2	10. 456.	5 6 F.
	12002.	-8.	-275.		-167.	210,	-720.	53.		34.	152. -172.	-15, -501.	354. -1577.			. 9. 202. . 1245.	
	16314. 11257.	-1682. 186.	-2755	-1323. -628.	-7173. 1371.	-2012. 257.		-1676. 66.	-38?5. 150.	-1946. 663.	235.	30:	432.	50.	-16 -19		14.
6 -	12112.	-199.	1745.	236.	1063.	-286.	-8 R 1.	-115.	-676.	247.	167.	-17.	340.	inn.	153.		74.
	13233. 11745.	14. -76.	4171. -427.	118. 473.	-642. 45.	100. -819.	-918. -1355.	#11. -715.	-1521. -264.	231.	295. 232.	150.	784. 684.	254. 16F.		55. 283. 18. 167.	226. -16.
	13713.	.93.		317.	-5050.	-406.		590.		-337.	140.	-14.	114.	764.	R11:		
	15065.	861.	2457.	-520.	-9816.	1936.	-2519.	984.	-802,	395.	211.	115.	250.	146.	271.	9. 216. 11. 358.	
	11148. 11435.	176. -496.		754.	707. 2868.	-504. -870.	-875. -122.	-572. -36.	-74. -329.	137. 270.	204. 143.	5. -50.	175	- 17. 58.		11. 358. 79. 238.	
13	-9792.	47.		-516.	A866.	485.	1079.		-1124.	-257.	170.	-28	348.	ħΛ.		15. 225.	
14	-8711.	410.	967.	-471.	12722;	781.	1350.	282,	-1487.	-339.	157.	-41.	165,	-103.	-72, -19	51. 289.	-93.
SIGI	4	565.		599.		905.		654.		627.		160.		482.	1	22.	388.
TABLE	IVb (CONTINU	ED)														
	HO	-	MÍC	·	H18		112C		H2S		нзс		1138		HAC	,	145
-, 1	705325 441896 594199	-01 .	133475E- 1583629E 1000357E	00 .261	1138E-0 344E-0 91590E0	158	5811E-0 8021E-0 1973E-0	1 97	0038E-0 6854E-0 18421E-0	1 28	3724E- 8454E- 8654E-	nz	0054979 2154295 888863E	-01 .7	15789ŠE-0 338862E-0 425789E-0	2 436	5035-03 1345-02 5905-02
TABLE	1Vc	CONTINU	(D)														
PS	j·	110	বা	1/4710	46	/dT1S											
	a	186795E	-01 28	71815150	0 970	R482E-0	1										
		1373385		75602050		81245F											
		106370E		38264750		58434F1					;						
		7116775		82428460 601436-0		9874450 3219959								•			•
10	o	317243E	-02 1	38955E-0	1 .313	04664E0	0										
12 14		4116115		60351360		8427350										4.	
16		438008E		205943 <u>5</u> 0 53355850		91432E0 40517E0										•	
18	0 7	464852F	-025	388539E0	0 .287	1229250	0										
20 22		390455F		616754E0		40098FA											
24		\$21198E		02420FE0 585887E0		0593E-0 35516E4											
26	0	117798E	-011	674676E0	0 27	97480E0	0								•	•	
28 30	-	176793E-		59939F-N 59481NE0		654N7E9 18343E9					٠.				,		
32		244321E		398415E0		40698FN						•			* *	·· • . ·	

Table IV. (Continued)

611712512. 1251. 125. 7272695561201013189. 323. 48. 3366 713011683. 5004277107. 496165. 884160126. 75280. 344. 57 811313221250. 484616897869514692168. 352. 84. 485. 1 912983. 160. 3047. 58034666721409. 71286179. 3508. 396. 6 1014363. 948. 3749165910321. 13951932. 595978. 298. 4676. 320. 4 11111203071431. 643. 50419617413238. 55. 20945. 33811 210653374508. 3922. 21531010. 85. 4266692. 319. 89. 3903 138634. 3861177414. 8324. 456. 1031. 377566. 162. 13735. 569. 14 147297. 8641000737. 12228. 906. 1330. 265892. 19. 156. 23. 420. SIGNA 488. 734. 667. 413. 184. 77. 7 TABLE 1Vb (CONTINUED) IIIC H15 H2C H2S H3C H3S7843335E-021412675-01 .36042775-02 .1357560E-02 .1753625E-02 .10621385-03 .7289631E-03467876E-01 .41474552700 .7657847E-0120315E-01751809E-01558580E-02 .3817849E-02168310E-01 .328001600 .33176433E00 .5930045E-01 .1939194E-01558580E-02 .3817849E-02 70208821E-01 .32870055E00 .3922684E-02 70168310E-01 .33570055E00 .3922684E-02	R116. 16 b. 503. bl 92710 7. bbc. 128 7. 145. 8 7. 145. 8 7. 17710 6. 17829 8. 23218	5. 455. 148. 5. 515. 42.: 6. 32635. 6. 67. 68. 6. 37557. 7. 32365. 6. 4077. 7. 27494. 6. 228141.
H HO DEL HIC DEL MIS DEL HZC DEL MZS DEL HZC D	R116. 16 b. 503. bl 927100 5. bbc. 128. 7. 145. 8 7. 145. 8 7. 177100 0. 85. 11 6. 17820 8. 23218	145 DEL 5. 455. 148. 6. 515. 42. 7. 32635. 7. 467. 68. 7. 37557. 7. 37565. 7. 4077. 7. 72898. 7. 228181.
1 -9000. 2809127. 88. 2267. 616. 620235. 91611. 228. 53. 5736 2 -140670. 13629. 32219413327217012820. 165. 400222717 3 -12018569168. 642831. 126673. 5855664. 161164. 3635 6 +1376311. 8267. 1288538851710651207362. 564. 161164. 3635 6 +1376311. 8267. 1288538851710651207362. 564. 164. 300. 55 5 -10922112578987. 553. 1233065050. 327. 159100. 485. 64 7 -13712512. 1251. 125. 7272605561201013149. 523. 68. 3366 7 -13011683. 5004277107. 496165. 884160126. 25280. 3466 8 -11313221250. 484616897869514692168. 352. 48. 455. 1 9 -12983. 160. 3947. 58054656721409. 71286179. 3508, 396. 6 10 -14363. 998. 3749165910321. 13951932. 595978. 298. 4676. 329. 46 11 -111203071631. 663. 50419617413238. 55. 20955. 33811 12 -10653374508. 392. 21531010. 85. 4266692. 319. 80. 30953 13 -8634. 3861177414. 8324. 456. 1031. 377566. 162. 137355. 569. 14 14 -7297. 8641000737. 12228. 906. 1330. 265892. 19. 156. 23. 420. **SIGNA	R116. 16 b. 503. bl 927100 5. bbc. 128. 7. 145. 8 7. 145. 8 7. 177100 0. 85. 11 6. 17820 8. 23218	1145 NEL 3. 455. 148. 4. 515. 42. 4. 32635. 5. 467. 68. 7. 37557. 6. 4077. 7. 72898. 6. 228181.
2 -14067, -0, 13620, 32, -2194, -133, -2721, -701, -2820, 165, 400, -22, -70, -12 3 -12018, -569, -168, b42, -831, 126, -473, 58, -556, -46, 181, -184, 350, -5 4 -13763, -11, 8267, 1288, -5388, -517, -1963, -196, -2102, -362, 544, 184, 300, 5 5 -10922, -11, -2578, -787, 553, 123, -304, -50, -50, 327, 159, -100, 885, 46 6 -1172, -512, 1251, 125, 727, -260, -556, -120, -1013, -182, 323, 48, 336, -4 7 -13011, -683, 5004, -277, -107, 496, -165, 884, -1601, -26, 252, -80, 384, 5 8 -11313, -221, -250, 684, -616, -897, -869, -514, -692, -168, 352, 84, 65, 1 9 -12983, 160, 3947, 580, -5866, -672, -1409, 7, -1286, -179, 350, -8, 396, 6 10 -14363, 988, 3749, -1659, -10321, 1395, -1932, 595, -978, 298, 667, -6, 329, 6 11 -11120, -507, -1631, 683, 50, -19, -617, -413, -238, 55, 209, -85, 338, -11 12 -10655, -374, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 399, -3 13 -8634, 386, -1177, -614, 8324, 556, 1031, 377, -566, 162, 137, -35, 569, 14 14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 420, SIGNA 488, 734, -667, 413, 184, 77, 7 TABLE IVE (CONTINUED) NO NIC HIS NIC H2S M3C M3S -, 7843335E-02 -, 1614801E00 ,33176433E00 ,5930045E-01 ,1939194E-01 -,558540E-02 ,3817849E-02 20, -, 168310E-01 ,29800167E00 ,3922684E-02 20, -, 168310E-01 ,29800167E00 ,1365188E00	503. LT 503. LT 5. LT 6. 27. LT 7. LT 7. LT 7. LT 7. LT 8	. 515. 42. 1. 32635. 1. 467. 68. 1. 30557. 1. 32365. 1. 4077. 1. 27894. 1. 228141.
3 -12018, -569, 168, 422, -831, 126, -473, 58, -556, -44, 181, -144, 363, -5 4 -13763, -11, 8262, 1288, -5384, -517, -1063, -106, -2102, -362, 584, 144, 300, 5 5 -10922, -11, -2574, -787, 553, 123, -304, -50, -50, 327, 159, -100, 485, 44 6 -11712, -512, 1251, 125, 727, -261, -556, -120, -1013, -147, 323, 48, 336, -4 7 -13011, -683, 5004, -277, -107, 496, -165, 884, -1601, -26, 252, -80, 384, 5 8 -11313, -221, -250, 484, -616, -897, -869, -514, -692, -168, 352, 84, 455, 1 9 -12083, 150, 3947, 580, -3466, -672, -1409, 7, -1286, -179, 350, -8, 396, 6 10 -14363, 988, 3749, -1650, -10321, 1395, -1932, 595, -978, 298, 467, -6, 329, 4 11 -11227, -507, -1831, 643, 50, -419, -617, -413, -238, 55, 209, -45, 334, -11 2 -10653, -374, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 390, -3 13 -8634, 386, -1177, -414, 8324, 456, 1031, 377, -566, 162, 137, -35, 569, 14 488, 734, 667, 413, 184, 77, 7 TABLE IVE (CONTINUED) HID HIC HIS H2C H2S M3C H3S -,784333E-02 -,181287E-01 ,3608277E-02 ,1357560E-02 ,1753825E-02 ,1062138E-03 ,7289831E-03 -,467876E-01 ,4147\$552E00 ,7652847E-01 ,290345E-01 ,751809E-01 ,2833371E-02 ,3817849E-02 -,168336E-01 ,5387005E00 ,3922684E-02 20, -,168316E-01 ,35570055E00 ,3922684E-02 20, -,168316E-01 ,35570055E00 ,3922684E-02 20, -,168316E-01 ,35570055E00 ,3922684E-02 20, -,168316E-01 ,298001072E00 ,13651888E00	9, -27, -100 3, bar, 128 10, 27, -16 7, 145, 8 10, 177, -100 10, 178, -20 8, 232, -15 8, 232, -15 8, 24, -15	7. 32635. 1. 467. 68. 2. 30557. 2. 32565. 3. 4077. 2. 77494. 228141.
\$ -13763, -11. 8262, 128853885171965, -1962102, -362, 588, 188, 300, 55 -10022, -112578, -987, 553, 123, -308, -50, -50, 327, 159, -100, 885, 8, 6-1712, -512. 1251, 125. 727, -260, -556, -120, -1013, -142, 323, 48, 336, -8 7 -13011, -683, 5068, -277, -107, 896, -165, 884, -1601, -26, 252, -80, 384, 5 8-1313, -221, -250, 848, -616, -897, -869, -518, -682, -168, 352, -80, 384, 5 9 -12083, 160, 3047, 580, -3866, -672, -1809, 7, -1286, -179, 350, -8, 396, 6 10 -18363, 988, 3789, -1659, -10321, 195, -1932, 595, -978, 298, 667, -6, 320, 8 11 -11120, -307, -1831, 683, 50, -819, -617, -813, -238, 55, 209, -85, 338, -11 2 -10653, -378, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 390, -33 13 -8638, 386, -1177, -818, 8324, 856, 1031, 377, -566, 162, 137, -75, 569, 18 14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 820, 18 16, 1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 820, 18 16, 1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 820, 18 17888-10 1, 1888, 77, 77 1888 199 (CONTINUED) **TABLE IVE (CONTINUED)** **TABLE IVE (CONTINUED)** **PSI HO	3. bbc. 128 7. 165. 8 7. 165. 8 177100 6. 83. 11 6. 17827 7. 24218 8. 247	. 467. 68. 30557. 32365. 4077. 27494. 228141.
\$ -10.92	7. 2716 7. 145. 8 9. 177100 9. 83. 11 6. 17827 8. 24218	30557. 32365. 4077. 27494. 228141.
### 1712	7. 145. 8 9. 177100 9. 83. 11 8. 17829 8. 28218 8. 241	3, 323,65, 3, 407, -7, 1, 274, -94, 228, -141,
7 - 13011, -683, 5000, -277, -107, 496, -165, 884, -1601, -26, 252, -80, 344, 5; 8 - 11313, -221, -250, 684, -616, -897, -869, -514, -692, -168, 352, 84, 485, 1; 9 - 12983, 160, 3947, 580, -5466, -672, -1409, 7, -1286, -179, 360, -8, 396, 6; 10 - 14363, 988, 3749, -1659, -10321, 1395, -1932, 595, -978, 298, 467, -6, 329, 4; 11 - 11120, -307, -1431, 643, 50, -419, -617, -413, -238, 55, 209, -85, 378, -1112 - 10655, -374, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 399, -3, 378, -1112 - 10655, -374, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 399, -3, 13 -8634, 386, -1177, -614, 8324, 456, 1031, 377, -566, 162, 137, -35, 569, 14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 420, 31644, 488, 734, 667, 413, 184, 77, 7 TABLE IVE (CONTINUED) IND	n. 177100 h. 83. 11 h. 17829 h. 23218 R. 243	0, 407, -7. 1, 274, -94. 0, 228, -141.
R -11313, -221, -250, 444, -616, -697, -869, -514, -692, -168, 352, 84, 445, 37, -12983, 180, 3947, 580, -5466, -672, -1409, 7, -1286, -179, 380, -8, 396, 6 10 -14363, 948, 3749, -1659, -10321, 1395, -1932, 595, -978, 298, 467, -6, 329, 4 11 -11127, -367, -1631, 683, 50, -419, -617, -413, -238, 55, 209, -85, 338, -11 2, -1053, -374, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 390, -3 13 -8634, 386, -1177, -414, 8324, 456, 1031, 377, -566, 162, 137, -35, 569, 14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 356, 23, 420, 14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 356, 23, 420, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	6. 83. 11 6. 17929 8. 23218 8. 243	77494. 228141.
9 -1298N, 160, 3987; 580, -5866, -672, -1809, 7, -1286, -179, 360, -8, 396, 6 10 -18363, 988, 3789, -1659, -10321, 1395, -1932, 595, -978, 298, 667, -6, 329, 6 11 -1122, -507, -1831, 683, 50, -819, -617, -813, -238, 55, 209, -85, 338, -11 12 -10653, -374, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 399, -3 13 -8658, 386, -1177, -418, 8324, 656, 1031, 377, -566, 162, 137, -35, 569, 18 14 -7297, 869, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 620, 18104	8. 23218 8. 243	228141.
10 -14365, 948, 3749, -1659, -10321, 1395, -1932, 595, -978, 298, 667, -6, 329, 6 11 -11120, -307, -1631, 663, 50, -619, -617, -613, -238, 55, 209, -65, 378, -11 12 -10653, -376, -508, 392, 2153, -1010, 85, 42, -666, -92, 319, 89, 399, -3 13 -8636, 386, -1177, -416, 8326, 456, 1031, 377, -566, 162, 137, -35, 569, 14 16 -7297, 866, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 420, SIGNA 488, 736, 667, 413, 186, 77, 7 TABLE IVE (CONTINUED) IND INC HIS H2C H2S M3C M3S -,7843335E-02 -,161267E-01 ,3606277E-02 ,1357560E-02 ,1753625E-02 ,1062138E-03 ,7289631E-03 -,467876E-01 ,41674552E00 ,7652847E-01 -,290345E-01 -,751809E-01 ,2833371E-02 -,952218E-02 -,11675787E00 -,1618801E00 ,33176433E00 ,5930045E-01 ,1939194E-01 -,558560E-02 ,3817849E-02 TABLE IVE (CONTINUED) PS) H0 idi/dT1C dM/dT1S 0, -,208821E-01 ,35570055E00 ,3922684E-02 20, -,168310E-01 ,23800007E00 ,13651888E00	A. 24	1, 453, 112.
12 -10655, -374508. 392. 21531010. 85. 4266692. 319. 89. 3993 13 -8634. 3861177614. 8324. 456. 1031. 377566. 162. 13755. 569. 14 14 -7297. 8641000737. 12228. 906. 1330. 265892. 19. 156. 23. 420. SIGNA 488. 734. 667. 413. 184. 77. 7 TABLE IVE (CONTINUED) HID HIC HIS HIZC HISS MISC HISS784333E-02161267E-01 .3606277E-02 .1357560E-02 .1753625E-02 .1062138E-03 .7289631E-03467876E-01 .41474552E00 .7652847E-01200345E-01751809E-01 .2633371E-02352218E-02 .11675787E001618801E00 .33176433E00 .5930045E-01 .1939194E-01558540E-02 .3817849E-02 TABLE IVE (CONTINUED) PSJ HO di//dTIC dM//dTIS 0208821E-01 .35570055E00 .3922684E-02 20168310E-01 .29800107E00 .13651888E00		
13 -8636, 386, -1177, -616, 3226, 456, 1031, 377, -566, 162, 137, -38, 569, 14 14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 420, SIGNA 488, 736, 667, 413, 186, 77, 7 TABLE LYW (CONTINUED) HID HIS H2C H2S H3C H3S 784335F-02141267F-01 .3604277F-02 .1357560E-02 .1753625F-02 .1062138F-03 .7289631E-03 467876E-01 .41478522600 .7652847E-01290345E-01751809E-01 .2633371E-02352218F-02 .11675787E001618801E00 .33176433E00 .5930045E-01 .1939194E-015585840E-02 .3817849E-02 TABLE LYW (CONTINUED) PSJ H0 dN/dT1C dM/dT1S 0208821E-01 .35570055E00 .3922684E-02 20168310E-01 .35570055E00 .3922684E-02 20168310E-01 .29809007E00 .13651588E00	1. 4F77	
14 -7297, 864, -1000, -737, 12228, 906, 1330, 265, -892, 19, 156, 23, 420, SIGNA		
SIGNA 688. 736. 667. 613. 186. 77. 7 TABLE IV6 (CONTINUED) 110 1110 H15 H2C H2S M3C H3S 786333E-02161267F-01 .3608277F-02 .1357560E-02 .1753625E-02 .1062138F-03 .7289631E-03 667876E-01 .41678552E00 .7652847E-01290345E-01751809E-01 .2633371E-02952218F-02 .11675787E00161801E00 .33176633E00 .5930045E-01 .1939194E-01558540E-02 .3817849E-02 TABLE IV6 (CONTINUED) PS) H0 i dn/d1C dm/d1S 0208821E-01 .35570055E00 .3922684E-02 70168310E-01 .29809067E00 .13651888E00		
TABLE 1Vb (CONTINUED) 110 111C H1S H2C H2S M3C H3S 78\$333E-021\$1767E-01 .360\$277E-02 .1357560E-02 .1753625E-02 .1062138E-03 .7289631E-03 \$67876E-01 .\$1\$767E-01 .360\$277E-01203\$5E-01751809E-01 .2633371E-02\$52218E-02 .11675787E00161\$801E00 .33176\$33E00 .59300\$5E-01 .193919\$E-01\$588\$6E-02 .38178\$9E-02 TABLE 1Vc (CONTINUED) PSJ H0 id1/dT1C dM/dT1S 0208821E-01 .35570055E00 .392268\$E-02 20168310E-01 .39800007E00 .13051588E00	2, 159, 40	528. #3.
110	2. 62	2. 82.
110		
%67876E-01 .\$1%7\$\$52E00 .76578%7E-01 203%5E-01 751809E-01 .2633371E-02 %52718F-02 .11675787E00 161%801E00 .33176%3E00 .59300%5E-01 .193919%E-01 \$585%0E-02 .38178%9E-02 TABLE IVE (CONTINUED) PSI	HAG	HAS
.11675787600161@801600 .33176633600 .5930045E-01 .1939194E-01558540E-02 .3817849E-02 TABLE IVE (CONTINUED) PSI IIO i di/dtic di/dtis 0208821E-01 .35579065E00 .3922684E-02 20168310E-01 .29899067E00 .13651588E00	-, 375864E-03	. 2721362F-03
PSI IIO i dI/dT1C dI/dT1S 0208821E-01 .35579065E00 .3922684E-02 20168310E-01 .2989907E00 .13651588E00	4670095-02	. 82364145-03
0208821F-01 .3557005500 .3922684F-02 20168310F-01 .2980007E00 .13651588F00		
20 1683105-01 .29800067500 .13651588500		
	•	
4013361NE-N1 .21941162ENN .2461GR43ENO		
60 1107935-01 .16373415700 .31748497570		
80, -,8570065-02 ,11745503500 .36165945500 100, -,8407805-02 .32614685-01 .40008840500		
120, .6737609E-031092876E00 .43603308E00		
140, .47483965-02 2679875500 .44983973500		V 1 4 4 4
160, .68218035-02 -,375249500 4197853500	•	
180, .7158826E-02 -,4789071E00 .33885377E00		
200, \$8891599-02 - \$198986500 21278356500		•
220, .20923466-02 -, 4952263600 .55477096-01		
240, -,300302E-02 -,3789558E00 -,1086384E00		
2509394145-0219116545002345410500		•
280,1525625-01 .67859275-02 -,2973821500		;
300 1990815-01 .16760996500 - 2893089500		, ,
320,228973E-01 .28286995E002257104E00 340,233495E-01 .35093808E001235891E00		

Table IV. (Continued)

TES	T 12	BLADE 4	r/R	596														
740		CONTINU	JED)															•
N	1.0	DEF	1'1C	PEL	1115	POL	1120	חרו	f125	Del'	1130	חרו	!!55	051	1.70	ne i	11115	DEI
1	-1776	. 10.	-789.	-58.	-665.	45.	630.	58.	973.	-66.	-17.	-17.	185.	97.			-520.	215.
2	-2663		3271.	-4.	-1971.		-1053.	-13?.	-525,	70.	326.	?1.	343.		-220. -157.	-199. -59.	1478.	227. -13.
3	-2217 -2502		834. 2177.	95.	-1325. -2415.	79. -151.	-100. -755.	-38. -57.	470. -65.	-n. -86.	152. 745.	1º.	1??. 287	41.	143.	33.	631.	70.
5	-2053		517.	-32.	-1085.	62.	31.	-36.	632.	135.	ins.	1.	101.	23.	-275	-35.	-117.	-1f.
Ğ	-2175		1157.	38.	-1238.	-111.	-112.	-56.	306.	41.	75.	-53	133.	-50.	-53.	140.	127.	-19.
7	-2317		1717.	-115.	-145C.	49.	-262.	118.	-87.	-77.	27.	-73.	355.	121.	-77.	30.	426.	-65.
	-2144		829.	74.	-1393.	-197.	-252.	-263.	453.	17.	159.	43.	147.	-27.	-56. 211.	114.	-96. 201.	-71. -67.
10	-2257 -2422		1371. 1252.	53. -229.	-2276. -3019.	-150. 329.	-448. -707.	43. 268.	296. 344.	-2. -43.	262. 373.	36. 36.	143.	-61. -7.	621.	-30.	125.	
11	-2237		703.	185.	-1253.	-124.	-140.	-236.	539.	56.	68.	-31.	61.		-125.	47.	-72.	66.
12	-1995		839.	24,	-819.	-105.	162.	-12.	429.	84.	67.	-11.	235.		-215.	nn.	54.	47.
13	-1710		855.	-132.	182.	120.	673.	256.	82.	-84.	98.	79.	247.		-694.	47.	84.	-11.
14	-1642	. 122.	1144.	-41.	791.	170.	662.	89.	-36.	-40.	-19.	-0.	177.	-5?.	-759.	-45.	3.	-190.
\$16	17	104.	:	z 117.		144.		150.		68.		43.		63.		106.		118.
TAB	LE IVE	(CONTINU	JED)															
	::0		. P10		1115		H2C		1125		**3C		1135		**40	,	, f	h s
	155067	5-02 1	.76095-	19 - 91	/1 h 20E _ 01		16565-03	,,,,,	2805-02	. 10	77705-			- 46	*****	r-43	. 1111	125-03
		-02 .77							0635-01			12 .51			322861		37101	
		r-nii							7265-03						168955		-, 8715	
TABL	E IVc	(CONTINU	ED)															-
P	51	חיו	di	1/dT1C	dH/	dTis												•
	_					. 	_											
		. 261542E- . 272696E-		71140E-0 51638E-0		777F-01 4245-01									٠.		:	
		. 2/2090E-		715700F-(746E-0						•						
		. 651877E-		40502E-0		1715-0							•				r-'	
		. 205101E-		127545-0		187E-0		*					.*				:	
		. 396247E-		29944E-0		G44F-0											4	
		.353493E- .991989E-		24943E-(04492E-(845E-0: 484E-0:						•		*				
		80558615-		1901235		484F-0								•			,	
		6719726E-		13438150		5145-0								7.5				
		4410123E-		06713E-0		140E-0									•		,	
		11891228-		49677E-		983F-0											3 "	
		12417716-		76652E-(441F-0												
		.9872815- .3840645-		19957E-0 19591E-0		7735-01 3015-01										. *		
		. 448832E-		3332E-0		762E-0												
		.304056E-		5365 TE-0		245F-0									,			
31	40	. 2107395-	02 .30	24867E-(11 173	232E-0	3									`		

Table IV. (Continued)

TEST 15 BLADE 1 r/I	R = ,217						• . •
TABLE IVA (CONTINUED			•				
H HO PEL	HIG DEL F	115 PEL 1120	DEL HIZS	DEL HISC	NFI, 1135 N	EL MAG DEL	MAS DEL
2 -8859, -321, -31, -31, -31, -31, -31, -31, -31, -3	-132, 1035, 15 0115, -327, 55 1545, 700, 22 1446, 131, 17 7432, 324, 22 1534, 560, 45 320, 1435, 10 5451, -287, -12 7706, 445, 20 1484, 70, -44 1031, -1270, -87 1869, -746, 20 3783, -637, 76	737. 127231. 594765150. 562. 275. 955. 208591259. 578523. 67. 578201. 616. 578201. 616. 578205. 123. 597123. 377. 168. 16082803. 192. 97047. 526. 800. 1680.	-609. 304. 51. 276. -397. 1797. -299. 2383. 198. 94. -5102050. 87. 617. 137. 357. 654. 141. 103. 199. 500. 441.	-106, b0h, -1181, 272, 76, 500, 35, 472, 381, 257, 46, 170, -610, 64h, 170, 475, 486, 422, 178, 470, 470, 470, 470, 470, 470, 470, 470	-01, 202, -5, 536, -1, 52, 226, -2, 713, 1, -13, 710, 7, 253, -5, -27, b7, -117, -148, 69, -1, -2, 333, -1, -2, 333, -1, -2, 333, -1, -2, 333, -1, -5, -2, 333, -1, -2, -1, -2, -2, -2, -2, -1, -1, -2, -2, -2, -2, -2, -2, -2, -2, -2, -2	12243289 81752 81768 -5. 47. 68 -54560 4912160 4912160 20374. 10 56450. 183 80. 127 00. 360. 127	16064. 744. 226616130. 0. 2799064653228132467. 1013770. 1034. 15. 54921.
\$160A 472.	773.	872. 1G23. 3413. 881.	341. 1722. 301.	360: 476. 386.		12. 738. 203 91. 119	
TABLE IVE (CONTINUED							
110	H1C H1S	s H2C	M2S	M3C	M3S	MAC	1145
3727745-01 .5211	431E-01 .1198166 4036E00 .5444363 7976E00 .5025073	35-017908436-03	.4742176E-02 1139203E00 .4201495E-01	.26896005-03 .16038385-01 ~.4438995-03	1832535-01	.11126005-03 .11777945-01 .23302195-01	.14288465-02 4006425-01 .10842895-01
PSI MO	div/dT1c	dH/dT1S					
0302040F-01 20197716E-01 40131337F-01 60945752F-02 8094576F-02 120. 9691676F-02 140. 1405342F-01 180. 1794432F-01 220. 1500375F-01 220. 655708F-02 24053230E-02 24053230E-02 240268532-01 32035982E-01 32035982E-01	.5108884600 .35105154600 .25504835800 .18604019600 .11124049600 .2729075-01 .1761019600 .2046620600 .4121362600 .5654600600 .5640016600 .5846077600 .3844135600 .11926845600 .119235725500 .4494194600	.13655741F00 .32655614F00 .221280778F00 .48114245F00 .55446635F00 .65466662F00 .6546662F00 .67463271F00 .67463271F00 .6748468F00 .59314232F00 .37838579F00 .325716F00 .325716F00 .421413F00 .421413F00 .442173F00					

Table IV. (Continued)

							,											
TEST	13 B	LADE 4	r/R = .	217														
TABLE IV& (CONTINUED)																• .		
Ħ	140	DEL	Hic	DEL	M1S	DEL	MZC	DEL	HZS	DEL	#30	DFI.	1435	DEL	1140	DEL	MAS	DEL
	-8782.	219.	-103.	-21.	-342.		-1086.	-91.	-426.	-36.	306.	-39. -37.	248. 166.	108.	- E h . - 4 G .	-1.	23. -256.	105.
	-1275.	-253.	1415.	893.	-212.		-1143.	-256. -^3	-585. -54.	-30. -969.	534. 222.	-76.	435.	41. -89.				277.
	-6586. -1091.	129. -372.	-7774. 203.	-356. 674.	4002. 305.	-246.	794. -1201.	-554.	-475	-100		-132.	110.	-65	-96.	-96.		14.
	-9403.	-476.	+462.	-154.	99.	-480.		117.	-353.	27.		-124	274.	113.	-36	-9.	39.	119.
	-8072.		-5486.	192.		-1006.		-136.	732.	208.	337.	31.	502.	RF.	37,	61.	235.	-105.
7	-6862.		-1276.		4135.	128.		-213.	1577.	168.	351.	142.	562	-54.	167.		593.	-45.
3	-3362.	-819.	1513.	1058.			-1010.	-38.	-205.	33h.	488.	24.	43.					-166.:
9 -	11118.	212.	5185.	-530.	-3525.	374.	-2731.	-53.	-1988.	-377.	652.	84.	-293.		-330.			1?2.
	-8844.	-408.	-806.	474.	730.	-893.	-491.	-65.	-321.	-87.	350.	-×7.	143.	-75,			-205.	
	11314.	-149.	-889,	າ.			-2134.	195		101.	305.	28.	138.		-389.	10.		-126.
	12780.	864.	-471.		-10195.		-3641.	449.	320.	223.	103.	. -7 0.	-97.		-530,	151.		121.
	-8793.		308.	-190.	820.		-1071.	-29.	-471.	44.	716.	251.	154.	48.	146. 503.	282.	-219. -95.	-86
	-7129. -3085.		-1159. -6222.	-264. -1220.	547G. 14287.	464. 2066.		115. 652.	-438. 304.	73. 360.	560. 533.	-35.	.270. 598.	-39.	682.	110.		51.23 58.0
\$1 G#	Λ	486.		620.		930.		277.		317.		101.		71.		175,		121.
TARL	FIVE	(CONT I NO	JFN															
	МО		M1C		M1S		MZC		H25	•	MSC		1135		HAC		Н	45
- : 5	230505 421895 373368	-01 .50	197411E- 0472452E 1644672E	0030	92438E-0: 97255E-0: LG3681E0	53	1975E-02 1731E-01 24452E00	100	8431E-02 88141E00 8150E-02	.1655	1249E-1 1052E-1 1502E-1	017	250239E-0 215202E-0 32876E-0	1 .81	0533761 4695121 6455141	5-02	.12579 4345 .94359	51F-01
TABL	E IVc	(CONTIN	UED!												,		٠, .	
Pς	1	110	्रं त	M/4T1C	dM,	/dT15										•	•	• •
			-0142 -0125			3668F0												
		1278355		73374751 6288865(7019850 9119650										•	:	•
		102376E		54140956		3579150												•
		585190E		61639E-6		1037750											•	
		003035F		29230F-		72666E0												
		331886E 126327E		154701F/ 503350F/		27022E0 16822E0											· / · ·	
		3355876		8427555		70274F1												
		3540375		201175F		2799FN												
		8675415		678090F		3864FN						:						
		540252E		492193E		721F-0												
		882107F		198876F		38944E0											`	
		180116E		0134455(38881F0	0					•						
		255400E		59309F-0		74441EN											**	
		319898E		147523E		1178451											*	
		354797E		762144F		69226E0												
,,		329587E	-01 .52	022271F	0020	5139E-0	1									,		

Table IV. (Continued)

										•								
TEST	13 BL	ADE 3	r/a = .2	17														
TABLE	IVa (CONTIN	ED)	•														
11	110	nel.	HIC	NEL	1115	DEI.	H2C	DEL	1125	051.	P130	1051	1135	DFL	1140	nel.	P4.5	DEL
1 -	2886.	75.	385.	-102.	-874.	12.	-897.	25.	-541.	209.	386.	-55.		138.	104.	172.	10.	92.
2 -	2082.	-310.	1857.	834.	-701.	-517.	-635.	154.	-1080.	-202.	394.	~57.	324.	108.	117.		-236.	
3 -1	5756.	-91.	-7224.	-197.	3348.	335.	377.	73.	-429.	-1137.	362.	67.			-106.		646.	230.
4 -1	8757.	-251.	. 284.	273.	-394.	-675.	-808.	-173.	-869.	-191.	421.	-10.	175.		-117.		-102.	-55.
5 -1	8742.	-231.	. '-71.	-282.	-571.	-348.	-323.	436.	-506.	206.	458.	23.	247.	15.	130.	76.	-8 R .	-26.
	3002.	-252.	- ,722.	441.	268.	-806.	-468.	-227.	461.	95.	279.	-53.	495.	10?.	80.	31.	200.	-89.
	6760.	51.	- 9997.	219.	2571.	-56.	319.		1221.	51.	283.	29.	600.	52.	111.	36.	552.	-3.
	9566.	-670.	1161.	1079.	-1080.	-564.	-546.	318.	-743.	138.	450.	-?.	172.	-31.	104.		-294.	-176.
	0443.	415.	?154.	-276.	-3771.		-2264.		-2858.	-733.	709.	134.	-113.		-127.		-400.	142.
	2727.	-674.	-275.	547.	-216.		-539.	-51.		10.	472.	77.		-102.	194.		-55.	-63.
11 -1		20.	-111.	-25.	-6561.		-2040.	139.		231.	. 473.	34.	-93.		-373.		-211.	-130.
12 -1		742.	1075.		-11538.		-3825.	-147.		371.	475.	-5.	-259.		-475.		-177.	49.
	8962.	40.	123R.	187.	-367.		-1221.	-231.	-843	31.		-163.	191.	-1.	-51.	-85.	22.	140.
	6924.	68.	-1663.	-342.	4752.	561.	551.	263.		527.	346.	-68.	446.	25.	341.	55.	43.	28.
15 -	2949.	1047.	-6159.	-845.	12403.	1232.	1818.	-267.	540.	392.	370.	- 41.	780.	-4.	718.	111.	322.	-16.
SIGNA		449.		591.		650.		222.		420.		70.		79.		115.		110.
TABLE	IVE (CONTIN	IED)													•		
	110		NIC		H18		M2C		M2S		M3C		1135		MAC		м	s
33	8423E- 4711E- 72562E	01 .49	191826E-0 1302081E0 1011645E0	0 .28	11075E+02 75482E-01 324747E00	15	0070E-02 6772E-01 39020E00	10	4824E-0: 10247E0: 7788E-0:	.9314	915E-0 961E-0 394E-0	12	1330685-01 9702235-01 3087485-01	87	665449 206249 48150	-02	.11869 3159 .14859	35-01
TABLE	IVc	CONT I N	JED)															
PSI		140	ता	1/4110	411/	4T1\$												
0		650A9E-		2081150		188150						4						
20		1940965-		17958251		500850									•			
40		1503565-		849635		106650												
60 80		1111605-		10730051		100350								:				
		592606E.		136355-1		551350												
100 120		2007665. 109205E		24797F-1 12153951		1920E0					,							
140		44419F		1659825		8440E0												
160			01 - 41			651050												
180		1153705		276345		957450												
200		746016		1787495		677550												
220		293335		3721425		2185-0												
240		57741F		22227E		GUSOFO												
260			ni 1			5335F0												
280			01 .468			165650												
300			01 242			107150												
320			01 . 42			5790E0												
340			01 .518			2234E0												
,40				1401135	119	443450	v											

Table IV. (Continued)

4 -20885\$, 650, 71988102, -365, -247. 3675. 100. 21. 64102500. 5 -200531. 4971061140147150. 21. 355, -18. 181. 6. 102. 36450. 6 -1101327458. 52886194. 48147. 890. 74. 87. 47. 16922354. 7 -1711. 61320. 10340. 5. 50515. 10642949. 13. 270. 41201. 8 -218891. 1031. 2531324265151. 105. 440. 130. 265. 69. 8960471. 9 -2343. 87. 4991834. 45816. 43230121. 367. 9. 3626661. 10 -2103113. 424. 219721919053. 41116. 171. 23. 1734384. 112350. 48. 512. 472264. 37657. 45. 684. 73. 108. 18. 51. 21845. 122629. 140. 4952665263. 3481129. 194. 734. 58. 228584. 141031.	1232831 -513661 -574. 8211 -1021862 -21145. 80. 327. 199. 845374462 -85520. 3 -1 -171851 -171851 199. 62. 1	138. 253. -57. -79. 35. 220.
	1232831 -533661 -574. 821 -102186 -21145. 80. 327 199. 883 -374863 -45520. 3 -41631 21821 199. 62. 1 -1092481 13358.	125. 138. 253. -57. -79. 220. 313. 166. -28.
1 -215752. 680. 311081. 52b06166. 33638. 1b637. 267. 1273b5. 2 -207515. 990. 214114215127771. 3001. 201. 6. 157. 4b66. 3 -1790b8781. 8637599. 479. 30. 6712167567. 1458810165247. 3675. 170. 21. 64102500. 5 -207855. 650. 77968102565247. 3675. 170. 21. 64102500. 5 -207931. 4071061140147150. 21. 35518. 181. 6. 172. 36457. 6 -101327458. 52886194. 48147. 89094. 87. 47. 16922354. 7 -1711. 61320. 10340. 5. 50515. 10642949. 13. 270. 41201. 8 -218891. 4031. 2531324265131. 105. 440. 130. 265. 60. 8960471. 102103134. 424. 219721919053. 4116. 171. 23. 1734384. 112350. 48. 512. 472264. 37657. 45. 684. 73. 108. 13. 1734384. 122629. 140. 48. 512. 472264. 37657. 45. 684. 73. 108. 18. 51. 21855. 122629. 140. 405366367. 37. 14431252. 28536. 12175. 140337. 151101. 238. 610264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484. 512. 472264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484. 512. 472264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484. 512. 47264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484.	1232831 -533661 -574. 821 -102186 -21145. 80. 327 199. 883 -374863 -45520. 3 -41631 21821 199. 62. 1 -1092481 13358.	125. 138. 253. -57. -79. 220. 313. 166. -28.
2 - 2005 16.	-51, -366, -1 -574, 821, 2 -102, -186, -21, -186, -327, -198, 843, -57, -446, -520, -198	138. 253. -57. -79. 220. 313. 166. -28.
\$\frac{3}{3} - \begin{array}{c c c c c c c c c c c c c c c c c c c	-574 821 2 -102 -186 - -21 -143 80 327 - 199 843 - -37 -446 -2 -85 -520 3 -1 -163 -1 2 -182 -1 199 62 1 -105 -248 -1 133 -58	253. -57. -79. 35. 220. 313. 161. -28.
4 - 20885\$. 650. 79968102365247. 3675. 100. 21. 66102500. 5 - 200551. 6971061180147150. 21. 35518. 181. 6. 102. 36150. 6 - 101320588. 52886194. 68147. 890. 74. 87. 47. 16922354. 7 - 1711. 61320. 10340. 5. 50515. 10642949. 13. 270. 41201. 8 - 218891. 1031. 2531324265131. 105. 440. 130. 265. 60. 8960611. 9 - 2388. 47. 1995591834. 85816. 83230121. 367. 9. 3626661. 10 - 2103113. 824. 219721919053. 81116. 171. 23. 1734378. 11 - 2350. 88. 512. 872266. 37657. 85. 678. 73. 198. 18. 51. 21885. 12 - 2629. 180. 8952463265, 3881129. 194. 734. 58. 228584. 141031. 13 - 217562. 73435975. 18431252. 28536. 12175. 1603558. 14 - 183022. 8088421. 83. 318. 67. 302. 10. 8958. 276. 3017. 15 - 1101. 238. 610264. 1895. 874. 1311. 245. 552. 116. 58. 33. 877. 33. 884. 81600. 90. 137. 137. 126. 87. 80. 59. 59. 33. 884.	-102 - 18621 - 143 - 80 - 327 - 199 - 8432 - 163 - 17 - 163 - 17 - 163 - 17 - 163 - 17 - 163 - 17 - 163 - 17 - 163 - 17 - 163 - 17 - 163 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1	-57. -2. -79. 35. 220. 313. 166. 161. -28.
5 -209531.	-21143. 80. 327. 194. 843. -374462 -85520. 3 -11631 21821 119. 62. 1 -1052481 13358.	-2. -79. 35. 220. 313. 113. 166. 161.
6 -101327658	199. 843. 7 -374462 -85520. 3 -11631 21821 199. 62. 1 -1052481	'35. 220. 313. 113. 166. 161.
8 -218891. 1031. 2531324265131. 105. 440. 130. 265. 60. 8960471. 92343. 87. 1995591835. 45816. 43230121. 367. 9. 3626661. 102103113. 424. 2197219119053. 41116. 171. 23. 1734374. 112350. 48. 512. 472264. 37657. 45. 684. 73. 108. 18. 51. 21845. 122629. 140. 4052463263. 3481129. 104. 734. 58. 228584. 141031. 13217562. 73435975. 14431252. 28536. 12175. 1401558. 14183022. 4088421. 43. 318. 67. 302. 10. 8958. 276. 3017. 151101. 238. 610264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484.	-374462 -85520. 3 -41631 21821 199. 62. 1 -105248 13358.	220. 313. 113. 166. 161. -28.
9 -2343	-85520. 3 -41631 21821 199. 62. 1 -1052481 13358.	313. 113. 166. 161. -28.
10 -2103113. \$24. 219721919053. \$1116. 171. 23. 1734384. 11 -2350. \$83. \$512. \$472264. \$37657. \$45. 684. \$73. \$198. \$18. \$1. \$21845. \$122624. \$180. \$6952463263. \$1881129. \$194. \$734. \$58. \$228584. \$141031. \$13217562. \$73435975. \$14431252. \$28536. \$12175. \$1403558. \$14183022. \$4088421. \$43. \$318. \$67. \$302. \$10. \$8958. \$276. \$3017. \$151101. \$238. \$610264. \$1895. \$474. \$1311. \$245. \$552. \$116. \$87. \$40. \$55. \$33. \$477. \$35. \$884. \$197. \$109.	-L, -1631 21821 199. 62. 1 -105248 13358.	113. 166. 161. -28.
11 -2350. 48. \$12. 472264. 37657. 45. 684. 73. 108. 18. 51. 21845. 12 -2629. 140. 6053263. 3481129. 104. 734. 58. 228584. 141031. 13 -217562. 73435975. 14431252. 28536. 12175. 1401558. 14 -183022. 4088421. 43. 318. 67. 302. 10. 8958. 276. 3017. 15 -1101. 238. 610264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484. 51004. 90. 137. 137. 126. 87. 40. 55.	21821 199. 62. 1 -105248 13358.	166. 161. -28.
12 -2629. 140. 4052463263. 3481129. 104. 734. 58. 228584. 141031. 15 -217562. 73435975. 14431252. 28536. 12175. 1401558. 14 -185022. 4088421. 43. 318. 67. 302. 10. 8958. 276. 3017. 15 -1101. 238. 610264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 484. SIGNA 90. 137. 137. 197. 126. 87. 40. 55.	199. 62. 1 -105248 13358.	-28.
13 -217562. 73435975. 14431252. 28536. 12175. 1403558. 14 -183022. 4088421. 43. 318. 67. 302. 10. 8958. 276. 3017. 15 -1101. 238. 610264. 1805. 474. 1311. 245. 552. 116. 58. 33. 477. 33. 486. SIGNA 90. 137. 197. 126. 87. 40. 55.	-105248 13358.	
15 -1101. 238. 610264. 1895. 674. 1311. 245. 552. 116. 58. 39. 677. 39. 686. 51610. 90. 137. 197. 197. 126. 87. 60. 55.		67.
SIGNA 90. 137. 197. 126. 87. 40. 55.		
	247.	98.
TABLE IVE (CONTINUED)	190.	151.
THOSE ITS TOWN INCEST		
110 M10 M1S M20 M2S M30 M3S M40	MAS	
	-03 .16772475 -01 -5298465 -01 .12170085	r-01
TABLE IVC (CONTINUED)	:	
PSI 40 dil/dT1C dil/dT1S	·	
0481681E-n2 .9807892E-n1 .7326584E-n1		
201030916-02 .23072466-02 .97706646-01		
40927787E-03733470E-02 .6884313E-01		
60 379139E-02		
80518011F-02 .5351148E-01 .8739251F-01 100357289E-02864879E-02 .10937521E00	* 1	
1005572895-028648795-02 .10937521500 120181259-0248789095-01 .10232915500	•	
1401704095-023272385-01 .10674307500		
160115858E-02460542E-01 .14209689E00		
180. 15019665-021363361600 .15038023600		
200. 3722982F-02201104F00 .7620530F-01		
220222729F-02 - 1599095F00 - 379h4F-01 240 172269F-02 - 38966F-01 - 100h839E00		
	•	
260 4094116-02 .22223886-01 9457146-01	•	
260 4094116-02 .22223886-01 9457146-01		
260 \ \ 0.09\\ 1.16-02 \ .2223\\ 86\\ 0.01 \ \ 0.03\\ 1.16\\ 0.01 \ \ 0.01 \ \ 0.01 \		

Table IV. (Continued)

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TEST 14 BLADE 1 r/R = .217
 TABLE IVA (CONTINUED)
                                                                                                                                                                                                                            1135
                                                                                                                                                                                                                                              DEL
                                                                                                                                                                                                                                                           MAG
                                                                                                                                                                                                                                                                           PEL
                                                                                       1115
                                                                                                                                                                              DEL
                                                                                                                                                                                            HISC
                                                                                                                                                                                                           DEL
                               DEL
                                                   M1C
                                                                                                        DEL
                                                                                                                          112C
                                                                                                                                                            MIZS
                                                                    DEL
                                                                                                                                            DEL
                                                                                                                                                      2798. 1609. 2062.

2375. 1407. 3064.

1903. 1079. 1052.

2418. 1447. 565.

3223. 1559. -19.

1090. -3661. 821.

7058. -548. 1053.

374. 1081. 331.

-2443. -1678. 443.

-8024. -2246. 1439.
                                                                                                                                                                                                                                                                                      319. -37.

372. 206.

52h. -148.

1872. 365.

1872. 365.

235. -356.

885. 199.

433. -227.

146. -507.

631. 228.
                                                                                     3544.
4749.
2384.
1712.
-307.
2516.
-554.
2650.
4363.
9028.
                                                                                                                                           -785.
79.
-551.
                                                                                                                                                                                                                           922.
515.
1001.
669.
                                                                                                                                                                                                                                              366.
205.
257.
                                                                                                                     10082.
-1076.
-4545.
                                             -8098.
-964.
1263.
-8285.
-2456.
-639.
         -4619.
                                                                                                                                                                                                                                            257. -31.

-249. -159.

206. 21.

-593. -255.

-230. -71.

594. -761.

-83. -109.

-564. 283.
                                                                 55.
-195.
91.
328.
-361.
339.
-88.
        -619.
-5191.
-6348.
-4668.
-6472.
-4476.
                                                                                                                                       -551.
-508.
263.
212.
841.
-1627.
952.
1125.
                                                                                                     -514. -4545.
-872. -8725.
1594. -646.
608. -2367.
-755. -4515.
883. -1756.
1347. 4709.
                                                                                                                                                                                                                          1558.
852.
1636.
1114.
520.
                               401,
          -3385.
-852.
SIGNA
                               841.
                                                                    217.
                                                                                                         941.
                                                                                                                                            826.
                                                                                                                                                                            1821.
                                                                                                                                                                                                            205.
                                                                                                                                                                                                                                               355.
                                                                                                                                                                                                                                                                            242.
                                                                                                                                                                                                                                                                                                          283.
 TABLE IVE (CONTINUED)
                                               Aic
            110
                                                                                   #15
                                                                                                                      112C
                                                                                                                                                        H25
                                                                                                                                                                                           M3C
                                                                                                                                                                                                                             MSS
                                                                                                                                                                                                                                                                HEC
  .4704042F-03 -,34028F-01 .2809664F-01 .6224201E-01 .2201232E-02 .1500967F-01 -.1627891F00 .50782672F00 -.606060E-01 -.1125343F01 -.3817903F00 .2108292F00 .42614362C00 -,2728057F00 .61046838F00 .94707316E00 -.7140217F00 .12379738F00
                                                                                                                                                                              .15009676-01
                                                                                                                                                                                                                                                                                    .4280371"-01
-.376349F-01
TABLE IVE (CONTINUED
                                                         dH/dT10
                                                                                            d11/dT1S
    PS1
                          110
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Table IV. (Continued)

TES	T 14	BLADE 4	r/R =	.217															
TAB	LF IV	e (CONTIN	UED)																
н	HO	DEL	M1C	DEL	M15	DEL	H2C	DEL	1425	DEL	H3C	DEL	M3S	DEL	HAC	DEL	M45	DEL	
1	-903		- 3524.		1833.		3750.	-922.	3972.		1720.		975.	670.	37.	81.		-124.	
2	-5244)356. 1703.	-5765. -1064.		3897. 714.		10386. -391.	1485. -603.	2165. 3339.		3182. 1341.	171. 135.	381. 920.	-75. 799.	-114. 108.	-207. 300.	517. 527.	6. 18.	
•	-5362	1101.	7 57.	-708.	-74.	-1290.	-4778.	-1479.	4212.	2204.	687.	57.	897.	884.	-324.	-35.	346.	429.	
6	-5514 370		4222. 584.		2033.		-4443. 827.	3144. 479.		-112. -4630.	-180. 2513.			-1422. -3328.			395. 990.	-163. 295.	
7		-2374.		-1475.	-1982.	-112.	-1336.	-298.	8682.	235.	1092.	-568.	1657.	1493.	-145.	198.		-239.	•
9	-5159 -4301		55. -56.				-4653. -3442.	-1962.		1708. -1114.		-42. 61.	1091. 1030.			-288. 92.		-36. -137.	
10	-1635				7440.		2813.		-7317.					-1104.		136.	149.		•
SIG	HA	1701.		885.		1143.		1469.		2096.		364.		1435.		181.		198.	
TAB		(CONTIN	UED)																
	110		HIC		MIS		H2C		1125		M3C		M3S		M&C		M	4S ′	
· • .	029827 421426 585467	55E00 .5	339,j98E- 898\$570 3509411	E002	92160E-0 08846E-0 303224E0	110		133	5713E-02 66095E00 55781E00	24	9232E- 21286E 0279E-	00	486224E 427766E 647551E		007398 261478 394896	E-01	1747	89E-02 42E-01 87E-01	•
TAE	LE IV	c (CONTIN	υε α Σ																
P	S I	110		14/dT1C	dit	/dT1S										•		•	٠.
		4736331E		11664988		62600E0				-									
		.4140265E .4454981E		1037619E		86695E0 62263E0											٠.		
	60	.310287E	-01 .36	754340E	0037	33957E0	Ö.						•			٠.			
		.3G27,4E .914757E		9691977E 9773351E		8986E-0 56575E0						-					. i	.*	
1	20	.3053790E	-011	1537908E	00 .130	52883E0	1									٠.	• • • •		
	40 60	.6310509E .8102985E	-018	1679766E1		86316E0 81688E0												,	٠,
1	80.	8431827E	-011	1861912E	01 .133	57026E0	1								•		•		
		.7181924E .4207509E		1865642E 1441981E		20609E0 45843E0													
2	40	579437E	-036	703763E	0079	85674E0	Ō						•				•		
		·.439151E ·.713691E		1698687E(1175338E(67513E0 08536E0						•				•	•		
		.688718E	-01 .9	647531E	0081	3768E-0	1												,
		.343490E		7877274E		17221E0 20661E0	0					·							

Table IV. (Continued)

```
TEST 14 BLADE 3 r/t = .217
TABLE IVA (CONTINUED;
                                                                                    HIC
                                                                                                                 DEL
                                                                                                                                                                                                                                                                                                                        P13C
                                                                                                                                         1632.
3567.
515.
-516.
-1736.
918.
-2215.
848.
2140.
7136.
                                                                                                                                                                                                                                                                                                                  1535.
2803.
1204.
297.
-478.
759.
647.
126.
114.
                                                                                                                                                                                                                                                                                                                                                                        1089.
609.
1124.
1183.
1421.
920.
1618.
1058.
1755.
                                                                           -3222.
-5378.
-671.
769.
2371.
                                                                                                                                                                                                                                                             3048.
3360.
4130.
3475.
4452.
1572.
7937.
               -8604.
-7117.
-5139.
-5695.
-8301.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -15.
170.
                                                                                                                                                                                                                               -710.
-27.
-250.
-1159.
555.
669.
754.
-1294.
242.
1421.
                                            -2077.
-1076.
412.
-230.
-2723.
                                                                                                                                                                                                8179.
~2768.
~7254.
                                                                                                                                                                                                                                                                                                                                                249.
446.
125.
168.
                                                                                                           -5.
293.
279.
-93.
251.
-534.
54.
31.
-417.
                                                                                                                                                                       -498. 8179.

-812. -2768.

-832. -7254.

-471.-10794.

1657. -2219.

562. -4552.

-613. -6206.

602. -4486.

1414. 3144.
                                                                                                                                                                                                                                                                                            119h.
                                                                                                                                                                                                                                                                                                                                                                                                    186, -238, -127,

204, 20, 81,

103, -81, -47,

31, 155, 171,

512, -55, 43,

-264, -47, 73,

246, -441, -421,

345, -145, -125,

-688, 261, 254,
                                                                                                                                                                                                                                                                                           2216.
1461.
1729.
                                                                                                                                                                                                                                                                                      -537.
-2535.
-1919.
                                                                                                                                                                                                                                                                                                                                           -214.
-121.
-125.
-165.
-162.
                                                                            -1639.
357.
271.
-1867.
                                                                                                                                                                                                                                                           -2143.
-6180.
SIGHA
                                                                                                                                                                                                                                                                                                                                                 218.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          181.
                                             1646.
                                                                                                                 268.
                                                                                                                                                                               929.
                                                                                                                                                                                                                                       855.
                                                                                                                                                                                                                                                                                            2032.
                                                                                                                                                                                                                                                                                                                                                                                                         345.
TABLE IVE (CONTINUED) -
                                                                                                                                         AIS
                                                                                                                                                                                                                                                                                                                   M3C
                                                                                                                                                                                                                                                                                                                                                                             M3S
                                                                                                                                                                                                 MZC
                                                                                                                                                                                                                                                           M2S
                                                                                                                                                                                                                                                                                                                                                    .8802522F-03 -.580255F-03 .8225817F-03
-.269299F-02 .1079078F-01 .2885212F-01
-.1281048F00 .3537582F-02 -.218588F-01
     -.230736F-01 -.303468F-01 .2286909F-01 .5564723E-01 .7241832F-02 .1380787F-01 .10871248F00 .53021648F00 -.104061F00 -.1143206F01 -.7721927F00 -.2171362F00 .24608765F00 -.2617401E00 .60946599F00 .77053336E00 -.6622558F00 .11159374F00
 TABLE IVe (CONTINUED)
                                              210
                                                                                                 anyaric
                                                                                                                                                          A11/AT15
                          .1859485F-01 -.5116130500 .10771121E01 .1060320E-01 -.5316154E00 .4507447E0 .12152E-01 .8878518E-01 -.2237774E00 .547975E-01 .81288764E00 -.51668082E-00 .3245393F-01 .268838767E00 .1084370FE01 .36194874E00 .449511E-01 .111670795E01 .36194874E00 .10843707FE01 .2463393F-01 .2463399E00 .10843707FE01 .3495897E-01 .2463399E00 .10843707FE01 .3666660E0-01 .8983421E00 .17246178E01 .476827E-01 .1255774E01 .370259E01 .366660E0E-01 .2124235E01 .3594627E00 .354458E-01 .2924207E-01 .1081139E01 .3666948E-01 .3294207E-01 .1081139E01 .3666948E-01 .3923407E-01 .108139E01 .1128169E00 .17323311E01 .1262944E01 .3666924E-01 .99250420E00 .53366410E00 .6666924E-01 .99250420E00 .53366410E00 .167070E-01 .224434E-01 .11493857E01
          120.
          240.
260.
280.
          300.
320.
340.
```

Table IV. (Continued)

TES	T 14	BLADE 2	r/R = .59	16														
TAB		(CONTINU				•												
N	110) DEL	HIC	DEL	MIS	DEL	MZC	DEL	H2S	DEL	мзс	DEL	H3S	DEL	HAC	DEL	MAS	DEL
1	-3552	1227.	,331.	61.	-507.	-317.	1495.	-281.	1650.	681.	693.	-33.	395.	201.	-100.	-11.	297.	47.
2	-3067 -1673		-908. 143.	-46. -32.	86. -726.	-81.	3492.	171.	1063.		1119.	140.	67. 370.	33. 26.	-81. -89.	-h.	305. 309.	29. 93.
5	-1772	140.	546. 932.	-32. 35. -61.	-1001. -1338.	-229. -121.	-1163: -2512.	-36. -32. 191.	1384. 1742. 1900.	365. 574. 324.	\$12: 210: 111.	-27: 120:	463. 677.	6. 23.	-89: -53: -90:	52. 31.	309. 158. 220.	-39.
ý	-1616	. 851.	133:	116.	-1438:	181:	-151:	-153:	3148:	-1312.	}66:	-164. -28.		-139:	-187:	- ģģ.		-112.
į	-1598	. 183.	486.	1.	~537.	-48.	-1252.	-358.	988.	383.	238. 264,	-4. 14.	469. 453.	132.		-105. -60.	213. 194.	25. 5.
10	-1440 -737		525. 64.	55. -48.	-360. 897.	109. 327.	-863. 1008.	-22, 233.	97. -1932.	-484. -747.		-112.		-273.	35.	75.	101.	-17.
\$1G	MA	789.		62.		237.		200.		616.		92.		137.		53.		60.
TAB	LE 1VE	(CONTINU	ED, H1C		MIS		M2C		H2S		нзс		H3S		MAC		М	s
			*			***		177	8117E-02		9796E-0	02 - 1	542947E-0		245542E	-03	119424	
. 8	106496 264139	E-01 .12	55 15E-02 97 068 0E00	-,28	3387E-02 1871E-01	38	0284E-01 58049E00	87	4291E-01	72	06742-0	01 .10	53798E-0	1 .6	277292E	-03	.97761	2E-02
		E-015 (CONTINU	7	.151	41516E00	. 246	32904E00	25	31386E00	.265	1325E-0	01	647860E-0	1 ./	209957E	-0z	.12329	UE-02
	Si	MO	•	dT1C	dt1/	dT1S		•	•							Hay		
		\$756306E-		8964E0		097 ¿EQ											. ,	
	40.	.4G48355E- 105218E-		28187E0 7952E-0	1191	1234E-0 3996E0	0									.,		
		.258253E- .305317E-		9056E0		0706E0									•		٠	•
		.232850E- .112858E-		17258E0 14784E0		5303E0 3361E0									٠	٠		
ī	40	.133632E- .5443197E-	02294	212E-0	1 .4202	8481E0 1441E0	0	-							4.5			•
		38899116-		113168		3353E8											• >	
2	20.	1019537E-	02197	72541E0	0161	5873E0	0									•		•
2	60.	294317E-	01 .4106	7041E0	0456	3387E0 7612E0	0								1.	9	* "	
3	00.	360404E- 309820E-		18501E0 31102E0		138GE0 158E-0												£ 1.
		168042E- 513311E-		12468E0 1662E-0		8651E0 8796E0												37
																	,	,

Table IV. (Continued)

			ADE 1 CONTINU	r/R = ,: JED)	217														-
•1	-	110	net.	יוניי	PFL	H15	NFL	HZC	* DFI.	1125	DFL	213G	nri,	71135	DFL	1140	DEL.	HLS-	pel
1 2 3 4 5 6 7 8 7	-29 -10 -12 -27 -33 -62 -32 -54 -16 -13	19. 02. 04. 36. 72. 97. 56.	-332. 147. -121. 41. 508. -194. -166. -30. 674.	-,535, -3105, -3105, -718, 8682, -1017, -3487, -2019, -218,	305. -13. 300. -325. 106. 317. -131. -675. 63.	1427. 2988. 3394. 1472. 751. -3376. 961. -819. -819. 3588. 4471.	-413. 208. -450. -820. -396. -180. -72. 1050. -426.	1884. 2172. 3283. 2476. 2330. 1192. 5425. 1407.	488. -344. 116. 157. -231. 405. -242. 103.	-2082. -4980. 563. 3074. 9585. 2151. 2552. 4257.	-76. -305. 543. -258. -118. 728. 225. -172.	652. 4774. 6407. 12070. 6254. 5652. 6757.	-020. 427. 690. -335. 1077. 15. -293.	-1281 -1281 -17081 -17081 -16820 -168	-779. -168. -920.	715 137 137 1457 1467 1467 177	-13. 162. 15. -52. 137. -224. -77. 32. -258.	627. 250.	253. -287. -35. -151. -69. 63. 14.
SIL	HÀ		314.		. 282.		₩GŹ.		276.		586.		849.		752.		140.		128.
TAS	ILĖ I		CONTIN	(e) (c (e) (c		mis		1120		1125		nsc		M3s		itan		jai	45
.7		096 <u>5</u> 861°	ONTIN		0015 00 .119	9191E-01 \$9526FNO 47712FN1	94 10	4857E-01 56459E00 52341500	.137	1290E-01 51160E01 97574E01	. 121	6364E+ 50906E 29354E	01 .1	9412975 3134295 1113943!	-01 .1	\$59095 358146 174272	6500	. 78528: 67399 . 112779	
1 1 1 1 2 2 2 2 2 2	20. 20. 20. 20. 20. 20. 20. 20. 20. 20.		982086- 982086- 9426005- 94262015- 1078201 1078201 20124535 2000097- 1086025 1086025 1086025 1186025 1186025 11860	-01t .966 -01 .111-01 .711-01 .444 -01 .5002 .600 -01 .5003 .6003 .6003 .6003 .600 .200 .200 .200 .200 .200 .200 .200	05187160 01407460 040348660 050848660 050153460 05135460 05135460 05135460 0513560 0513560 0513560 0513560 0513560 0513560 0513560	10132 11386 10 .1200 10 .1730 10 .1730 10 .2772 11 .3583 11 .1181 11123 11 .2235 11 .2235 11 .2285 11 .2285	4713 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											

Table IV. (Continued)

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TEST 15 BLADE 2 F/R = ,217
 TABLE IVA (CONTINUED)
                                                                                                                                                                                                                                                                                     HAC
                                                                                                                                                                                                                                                                                                      DEI
                                                                                                                                                                                                                                                                                                                      1145
                   110
                                   DEL
                                                         MIC
                                                                            DEL.
                                                                                                 1115
                                                                                                                    DEI.
                                                                                                                                      112C
                                                                                                                                                          DFL
                                                                                                                                                                             1125
                                                                                                                                                                                                DFI.
                                                                                                                                                                                                               1130
                                                                                                                                                                                                                                DEL
                                                                                                                                                                                                                                                   1135
                                                                           205.
205.
164.
-573.
                                                                                             2353.
2637.
428.
-138.
-4500.
                                                                                                                                                                                                                                                                                                                      305.
309.
                                                                                                                                    1688.
1821.
2590.
2253.
3146.
2145.
5397.
7494.
-876.
                                                                                                                                                      -293.
-106.
130.
-274.
-5.
-15.
508.
                                                                                                                                                                       -1894.
-5307.
258.
2089.
9220.
7239.
1087.
                                                   -2627.
-3654.
-1594.
-776.
2954.
-671.
                                                                                                               350.
-629.
-384.
-618.
-475.
-389.
-56.
                                                                                                                                                                                                                                                                                   226. 216.
456. 78.
702. 73.
1218. 86.
303. -04.
432. -112.
764. 55.
106. -261.
300. 110.
                                                                                                                                                                                                                                                                   -1957.
-460.
-962.
-562.
739.
495.
          -3168.
-3705.
-6291.
                                -240.
261.
-183.
                                                                                                                                                                                             265. 6432.
-152. 6212.
70.10870.
873. 6077.
                                                                                                                                                                                                                                                                                                                   347.
-303.
-580.
           -3478.
-4751.
-5736.
                                 -222.
260.
-63.
                                                                                             -68.
-1182.
-3975.
                                                                                                                                                                                               -232. 4365.
453. 6472.
                                                                                                                                                          -009.
                                                                                                                                                                       -192h.
                                                                                                                                                                                               1810. 100h.
637. 2815.
                                                   -7306.
-.854.
                                                                          -769.
249.
                                                                                               3137.
3718.
                                                                                                                  1422.
STOPA
                                   359.
                                                                             343.
                                                                                                                     598.
                                                                                                                                                           335.
                                                                                                                                                                                                714.
                                                                                                                                                                                                                                                                      R84.
                                                                                                                                                                                                                                                                                                      134.
                                                                                                                                                                                                                                                                                                                                       197.
TABLE IVE (CONTINUED;
                                                                                                                                                                                                                                                   1135
                                                                                                                                                                                                                                                                                         ****
               110
                                                     1:10
                                                                                            1115
                                                                                                                                  H2C
                                                                                                                                                                        H25
                                                                                                                                                                                                              MEC
  .57061775-02 -.573\825-01 .8815096-01 .1988066-01 -.8811335-01 -.825855-01 .10735636-01 -.223\63\600 .8221\691600 -.259\777500 -.717878600 .13900913601 .11652792601 -.21000\600 -.419\$000 0 -.419\$000 0 .1167336601 -.1022606601 -.1216895601 -.8966755600 .11675837501
                                                                                                                                                                                                                                                                                                                .8842252F-02
-1740602F-01
.14244801F00
                                                                                                                                                                                                                                                                        .10948159500
-.1068216500
TABLE IVE (CONTINUED.
     PSI
                                  110
                                                                 dit/dt10
                                                                                                       dH/dT15
                                                        .11616565E01
.13171487701
.75587727000
.36677277000
.3750707000
.20275630E00
.6008111E00
.2025731E01
.3037458E01
.2813106E01
.1177778E01
.10315217E01
                      -. 785534E-01
      120.
                       .10093145500
.16015050500
      140.
160.
180.
200.
                     .16015050F00
.16929331E00
.12137597F00
.2189847F-01
-.878505F-01
-.1014150F00
-.711915F-02
.5631416F-01
-.3431991F-01
      220.
240.
260.
280.
                                                        .19315717601
.17295266E01
-.1963123E00
-.1719794E01
-.1561440E01
-.1081654E00
       320.
```

Table IV. (Continued)

T-::=																		
		CONTIN	r/h • .: JEDI	(1/														
11	110	net	#1C	DEL	. 1115	DEL	M2C	DFI.	MZS	DEI.	1130	DEL	1135	nei,	1160	DEL	MAS	DEL
1 -	-3115.	-333.	-551.	417.	181.	-524.	1253.	-118.	2241.	643.	4728.	265.	-877.	612.	317.	-5.	601.	119.
2 .	-2010.	80.	-2094.	12.	1833.	223.	1738.	29.	-387.				-1332. -1613.	-645. -675.	211.	13. 250.		-137. -223.
	-1603. -2969.	-394. -89.	-3161. -1222.	223. 24.	2277. 243.	-543. -205.	1775.	-56.	-2267. 1352.		1565. 5025.		-2035	-167.		-3.		144.
	-3577.	387.	-185.	-524.	-583.	471.	1617.	-155.			6954.		-2733.	-456.	711. 1385.	100.		-154.
	-6493. -3578.	-299. -327.	₹500. ►70.	244.	-4585. -556.	-367. -549.	1936. 966.	-649.	10834. 3580.	909.	11587, 6599;	1000.	-3854. -020.	977.		-103.		-71. -202.
8 .	-3370.	368.	-1118.	-379,	-1232.	693.	4201.	216.	1909.	-1513.	5359.	-704.	-3119.	511.	343.	-251.	F65.	
	-5659, -1733.	-53. 675.	-1471.	-453.	-4568. 2587.	-215 1203.	6516. 432.	270. -253.					-5?R?.	250. -680.		rs. -178.	129. 542.	-40. 16.
	-1076.		-1618.	-58.	3521.	-187.	-526.		-1204.	-256.	2466.	-234.	1602.		110,		839.	
1100	r.	333.		314.		550.		325,		728.		519.		SOF.		136.		175.
TABL	E IVb	(CONTIN	UEDI	•														
	110		1:10		H15 .		H2C		112S		1130		P35		1140	•	M	45
2	692025 661901 418918	E00 .8	543914E- 4372650E 417 4 73GE	0021	17632500	75	001E-01 3762E00	,130	5275E-0: 02659E0 66025E0	1 .102	28295- 256265 096745	01 .2	4701585- 88942985 88828845	00 .1	54252F 211187 130397	4 = 01	,21674 .60310 .47740	525-01
TABLI	E IVc	(CONT I N	JED)															
PS	1	110	તા	:/atic	ताः।	dT1S												
	o	6157045		78415850		744850	ļ.											
		782982E 576405E		548402F0 394756C0		19231500 1535950:												
		2465835		06707850		864950							٠.					
		517011E 857521E		69375650 576495-0		551050						· .	•					
12		773885E		06587250		(8022E0) 3230E0									٠.			
14	01	3968656	E001	83290550	1 .320	7735E0	1						. '					
16 18		15003432 1377828		84378860 76473760		(7068E0) (2543E0)					•							
20	0	562127F	-01 -,1	40301760	190	1114E0)							•				
22 24		553201F 1121096		114935E0 078631E0		1946150 221050						٠, .		•				
26		996201E		640315EG		4525-0										•		
28	n	30776RE	-01 .22	25913760	0 .1771	213350	ļ						•					
30: 32:		463640E		44120159 70102850		3505E0: 13355E0:						,		_				
34		705683F		91145950		666260								•	•			

Table IV. (Continued)

**				502															
		BLADE 2 /a (CONTIN	•	280													-		
н	1	10 05),	H10	DEt.	H15	NFI.	i, śc	DFI.	1125	DF1,	H30	nel,	**35	nei.	የተከተ	PFL	1145	rsj.	
1	-109	7. 14.	56,	51.	-634.	-142.	819.	107.	443.	128.	1524.	204.	-620	306.	87.	3.	302.	82.	
ź	-91		- 266.	í.	-186.	59.	732.	-29.	-323.	-7.			-262	-201.	-50.	-50	199.	-44.	
3	-83	477.	-540.	41.	-16.	-19.	680.	-65.	-990.	60.	-45.	53.	-F?R.	-371.	17.	86.	177.	-03.	
4	-115		-47.	23.	-637.	-82.	729.	-26.	316.		1421.	223.		-1**.	111.	hR.	209.	-7.	
5	-133		.180.	-133.	-757.	174.	747.	-176.	1016.	-117.	2172.	34.		-345.	110.	-48. 68.	71. 75.	-100. -30.	
6	-113		1074.	Gn.	-1925.	-112.	1128.	21.	2731.		3867.	-37.	-2775. -769.	-175.	27.	-07.	217.	13.	
7	-126		210.	74.	-712.	-31.	827.	, f.	875. 522.		2107. 1455.	483. -198.		157.	žr.	-11.	282.	116.	
3	-140		-17. 92.	- 6 6 . 11.	-1103. -1839.	68. -38.	1804. 2376.	185. -37.	1367.		2065.		-2720.	172.	168.	31.	114.	-1.	
10	-96		-133.	-134.	-32.	285	310.	-163.	-330.	-533.				245.		410E.	239.	5.	
Ĩ1	-76		-80	- 25.	187.	-101.	-88	126.	-165.	182.	949.		431.	207.	111.	Rb.	351.	G 7.	
310	7°A	56.		71.		131.		107.		214.		321.		245.		66.	•	66.	
TAB	LE IV	b (CONTINU	JED I	-				-											
	110		710		1115		H2C		M2S		1150		HISS		5560		198	, <	
	58127		141756- 1790366 053516-	00 - 6º	153045-02 133026-01 180163500	20	9525E-02 97953E00 16232E00	. 407	8194E-91 46465E99 53967E98	. 452	3706F- 08267F 33130F	nn	31757FF- 2456F9F- 4152755F	4. 10	220350 709450 298141	F-01 ·	. 260961 73141 . 256951	755-92	
		C (CONTIN	,			• • • •		• > 4.						•		. 7			
	251	110	1	174T10	att/	dT15										-			
		•	7		,											-			
	n.	2560775		3004465		0272F0													
	20.	2246045		54557950		1875-0													
	40. 60.	1270935- 979168E-		28725451		172250													
	80.	-, 110247F		03356E-1 84111E-1		19422ED													
1	nn.	4801735		72577951		337350										•			
	20.	.1262103E		633765-		5349F0													
	40.	.3252271F		370103F		1875F.0													
	160.	.4186981E		3400666		4930E0													
	180.	.319185GE		846616F		487000	0												
	200.	.3472563E		373613E		476500													-
	220.	295503E		704726F		763550												٠.	
	140.	4475205		517778E		1620RE0												•	
	60.	293015F		1468515		769250											* 4		
	80. 100.	.37721555- .24388125-		151999FI		493150													
	20.	.1547762E		256339E(381602E(3013E0 210E-0													•
- 3	20.	**************************************	-415	1010176	,, -, 249	4702-0	•												

Table IV. (Continued)

		-		-														
TE	T lu	BLADE 1	r/R = .	217														
TAB	LE IVa	(CONTIN	UED)															
																	-45.0	
11	110	DEL	HIC	DEL	1118	DEL	HZC	DEL	H25	DEI.	HSC	DFL	1135	PEL	****	DEL	1145	uel.
1	-1223		-1477.	-132.	1081.	-147.	1450.	-199.	1404.	43.	68.	-27.			1351.		-1438,	
2	498		-2827.	-285.	3467,	523.	488.	51.	-682.		1225.	122.	-100.		1220.		-2164.	
3	384		-3325.	-217.	4244.	588.	-119.		-1439.		lele.	62 .	-153.	76.			-2143.	-618. 131.
5	777 -628		-3769. -2038.	129. 101.	4077. 2380.	-511. 117.	-765. 991.	177.	-2312. 269.	75. 70.	1970. #83.	-110. 147.	47. -670.	-230.	1293.		-1618, -186.	1107.
G	-2558		-784.	-81.	180.	-118.	1987.	-188.	2226.	- P.G.		-178.	-1661.		2715		-1291.	
. ,	-1176		-1766.	203.	2008.	-277.	1056.	245.	300.	249.	824.	45.	-837		1223.		-1021.	2E7.
	-2413		-2050.	A3.	76.	-391,	2634.	214.	525.	278.	245.	-30.	-76°.		2335		-987	F28.
9	-2921		-1842.	14.	-1086.	372,	3882.	-96.	608.	-174.		51.	-668.		2776.		-2080.	-264.
10	-929		-1217.	206.	2220.	-583.	318.	72.		208.	486.		-1737.		2032.		-697.	237.
11	104	. 137.	-1048.	-21.	4222.	428.	-728.	-24.	1534.	-148.	648.	52.	-2023.	-51.	1430.	1٩,	-45%.	17.
SIG	"1	389.		157.		407.		141.		176.		106.		·198.		346.		531.
TAB	LE IVE	CONTIN	UED)															
.,	1:0		#1C		115		142C		1125		1130		H35		1140) *	45
_																		
			1617526E		17316600		3319E-01		41077E00		h		0390045- 0		140435		7155	
	322708 #0505#		4880926EI		0723E-01 19451E01		86604E00 85358FN1		12464E01 34048E01		358175 32877E		1222335E 917655E-0		604381 101860		.72683	
		(CONTIN			1345 11.01			-, 4"	34040201	. 101	32-776	•••	12711331.		****	24.00	. 1. 702	303.00
P	51	1.0	41	MAT10	411/	dT1S												
	0	.5164235	-01 .54	35798150	0 932	270150	0									•		
		. 1411693		12008750		582750												
	4A	. 1369627		98815250		RANGER												
		. 4080355	-01 .22	28816150	1 .3522	098150	1											
		80782845		40F025E0		ORRREO												
		23427432		1174660		3340E0							12					
		42810133		06966750		787650												
		53438157 39827152		720794E0 691152E0		17051E0 10914E0												
		9037463E		854428E0		373670						•						
		. 1145004		83025250		817250												
		. 7230825		82002950		7043E0												
		5099026E		12783850		220750												
		27045948		010433E0		308150												
		. 1112832		6613G2E0		596120								•				
		. 1665790		0755GE-0		4987E0												
		. 7809125		30662180		389550												
3	40	. 1562216	-uz -, 4	C3R999EC	U 587	885269	U						_					
_													-					

Table IV. (Continued)

TEST I	lú fei	ADE /	r/R =)1 <i>1</i>															
		CONTIN		•••															
N	110	PEL	1110	DEL	mis	DEL	HZC	DEL	1125	DFI.	H30	חהו	1135	PEL	**	DEL.	1145	net	
2 - 3 - 4 5 -1 6 -2 7 -1 8 -2 7 -3	120. 887. 12. 577. 224. 502. 080.	-34. -128. 205. 12. 45. 304. 106. -196.	-1188. -2010. -2443. -3461. -1596. -313. -1618. -1575.	-245. 36. 126. -159. 80. 37. 8. 105.	437. 1787. 2817. 3621. 894. -446. 1137. -786.	248. 133. 259. 125. -314. -168. -517.	1705. 880. -111. -760. 1439. 2151. 1244. 2727.	-257. 174. -267. -218. -245. -509. 133. 208.	1715. 311. -571. -2027. 860. 2495. 677. 756. 874.	189. -289. 185. -148. 42.	1014. 1870. 84. -969. 573. -109.	-16. -141. -14. 84. -133. 111. 312. 105.	-1278. -591. -778. -135. -862. -1552. -707. -606. -1436.	131. -281. 44. 2. -135. 152. 66. 44.	1745. 2135. 1105. 874. 1861. 3339. 1636. 2600. 3594.	483. -178. -122. 356. -299. -63. 154.	-1215.	-224. 317. -382. 347. 184. 166. 705.	
	303.	-172. -69.	-809. -648.	162. -30.	1046. 2418.	-458. 179.	843. 352.	38. 273.	1848. 2094.		-140.		-1428.		1524.		-1028.		
\$1627		147.		120.		281.		253.		156.		134.		133.		346.		391.	
		CONTIN																	
	110		'110		115		H2C		1125		1130		1135		1140		,	145	
	5196: 1723:	00 .14	.429539E(.332592E(.318420E(.ED)	1135	53512500 62165500 79525501	578	3672E-01 4741E-01 57150E01	208	47404500 00349E01 51669E00	-, 87	206535	on	1968695 7649991 9553765	Enn . 2	813339 871765 116520	1500	11775	:11=-01 :948=09 :944=00	1
PSI	•	1:0		1/4710	dt:/	dT15													•
20. 40. 50. 80. 100. 140. 140. 200. 220. 240. 250. 270. 370. 370.	1 1 8 .80 .27 .40 .72 1	224776- 137818- 5166956 342716- 126897- 126897- 1518637- 449988- 505018- 505018- 505018- 505018- 712736- 712736- 712736- 712736- 712746- 712746- 712746- 712746- 7114196-	00 .12 00 .20 01 .23 01 .13 001 005 005 005 016 01 .77 01 .77 016 016 015	2612:160 777759:0 777759:0 777759:0 755510:0 755510:0 75563350 756650 777760 777760 777760 777760 777760 777760	1 .8577 1 .2581 1 .4003 1 .6387 1 .7952 1 .7858 1 .7858 1 .7838 0190 1938 0 .1199 0 .1493 0 .4958 0 .4958	304450 5509760 5529760 0530250	0												

Table IV. (Continued)

TEST	r 16 E	LADE 3	r/R = .	217														
TAB	LE IVA	(CONT I N	UED)															
и	119	NEL	**10	nrt.	1115	DEL	1120	nei,	1125	DEI.	1130	Pel	**35	nel.	1160	hel	**65	PEI
,	-1265.	504.	-1172.	3.	447.	132.	1665.	-236.	1507.	-216	-327.	16.	-1000	77	1386.	-260	-1758.	-575
2	-11.		-2170.	-715.	1782.	42.	912.	178.	140.	117.	416.		-h30		1768			
3	45.	١,		-1272.	2679.		-166.		-1081.		1320.	179.	-697		1234.			
4	773.	50.	-329.	1467.	3276.	164.	-389.		-2049.		1791.	10.	5,		1205.			-106.
5	-987.	-55.	-1573.	-204.	743.	-234.	1467.	256.	832.	214.	373.	£1.	-645,		1661.			147.
G	-2271.	48.	-561.	464.	48.	504.	2079.	-457.	2241.		-512.	381.	-1567,		2081.		-1075.	h.
7	-1745.	-382.	-1574.	-224.	190.	-278.	1249.	123.	718.	163.	508.		-1020.		1784.		-1374.	244.
8	-2320.	-379.	-1603.	-91.	-618.	-362. 95.	2523. 4435.	-29. 288.	749. 1024.	159.	84.		-577. -514.		1924. 3397.	-445.	-1881.	675. -333.
10	-2897. -1134.		-1375. -851.	196: 224.	~1708. 975.	-599.	753.	100.	1987.				-1493.		2771.		-543.	
11	-243.	78.	-705.	151.	2535.	184.	37.	250.	2175.				-1548		1670.		-1099.	
SIG	1.7	275.		654.		314.		256.		228.		215.		128.		374.		355.
TAB	LE IVb	CONTIN	(UED)												•			
	110		HIC		M15		MZC		1125		1130		1135		** 4 C		. 1	145
	270140! 3469551 6653001	5. 00	16502801	00 1	339458500 111522500 454224501	21	75453500	. 213	13841E00 25685E01 83704E00	~. 81		00	1569965 8918299 9985315	F00 .1		REOD .	41228	965-01 121500 1025-01
TARE	FIVe	(CONTINU	JFD)															
	51	lin		n/dT10	du	4113												
•	••		.,		.,.,													
		7763555		7669395		1098550	0											
		6708575		3264775		6329F0									•			
		1220785		3843015		749450					•		1.					
		4696965 3065886		355347F0 269027F0		11040F0 12767F0												
		10431187		2655418		046750												
		1236522		992259E		854750												
		5127162		4505885		1760E0												
1	GO	5867918		1457235		811150												
		S80485F		6833RE-		666750	1											
		1497899		285017F		0238E0							. `					
		1247335		1934265		204050									• .			*
		1054865		9847365		048750						<i>;</i>						, .
		3778443E .505403E		9356176 2759376		1637E0 14969E0												
		9887025		5256936		15492E0												٠,
		1125 ROE		1563545		15942E0										٠.		
		90569725		3696365		504E-0												٠' ٠
•					, ,,,,,,		-											

Table IV. (Concluded)

TEST	16 8	LANE 2	r/R = ,5	46															
TABL	E IVa	(CONT I NUI	ED)													•		-	
N	110	DEL	nic	nel	M15	DEL	1120	DEL	MZS	DFL	M3C	Del.	H35	net	1160	DEL	1165	PFI.	
1 ?	-717. -331. -272.	53. 11.	-15 -164, -346,	-63. 57.	-545. -60. 185.	74. 73. 112.	538. 371.	-14. 76. -122.	516. 216. -54.	-58. 75. 14.	-162. -16. 178.	5, -na, -18,	-100. -50. -172.	1º. 78. -75.	547. 652. 328.	131.	-477. -358. -140.	-145. -89. 116.	
3 4 5	-18. -671.	-2. 49. -116.	-585 -132,	-69. 1.	356. -388.	8. -67.	-114. 473. 669.	-44. 57. -157.	-434. 348. 802.	-74. 57. -70.	411. -105. -440.	17. -47.	-30. -117. -117.	-4. 4?.	205. 501.	23. -48.	-395. -151. -275.	-147. 150. 54.	
6 7 8	-139. -626. -897.	- 23. - 20. - 89.	-117; -149.	-2. 20. 26.	-735. -384. -883.	97. -91. -154.	413. 830.	20. 53.	273. 304.	-7. 22.	32. -121.	82. 77.	-173. -113. 17.	-13. -32. 50.	563. 87?. 1267.	-68. -22.	-226. -153. -744.	70. 265. -216.	
10 11	-1030. -585. -392.	74. -41. 48.	-165, 108, 167,	-16. 42. -26.	-1137. -386. -35.	-131. 27.	1236. 347. 212.	70. 31. 91.	360. 506. 693.		-417. -151. -140.	-41. -7. 1.	-313. -313.	-47. 54.	7K2. 559.	126.	-175. -249.	52. -101.	
SIGI	14	69.		35.		90.		85.		45.		43.		50.		129.	•	143.	
TABL	E IVb	(CONT I NU	ED)																
	140		HIC		1115		112C		1125		H3C		1135		HAC		741	45	
1	818425 428873 125876	500 .38	86139E:0 661925F0 92993E:0	0 13	4308E-01 14109E00 51806E00	. 270	1926E-02 1750E-01 16760E00	. 5625	411E-01 9190E00 9118E00	25	87375-0: 1695650 9119450	n !	1649415-01 1876382591 1944635-01	1 .1	258063 347410 432888	NEBO .	-, 8514; , 79057; , 14532;		
TABL	E IVc	(CONTINU	ED) ·																
L.	11	!:0	્ નૃ!!	/dT1C	4117	dT15													
	0	102946E- 328364E- 419544F-	01 .390	8648666 7552066	10 .1971	6939E00													
(in	2822785- 2761765-	01.576	3321356 1512956 5452656	0 .8687	!)	•											
10	08	468353E- 165893E-	0136 0132	66225E0 01365E0	10 .1692	2720E01	l 1										•		
18	n 5	9644275- 5842545- 1585055-	01 98	14867E0 31235E0 50824E0	0 . 8446	BGRGED: 332E-0: 9174E00	l '												
2 2	n	22250GE- 3G8564E- 104329E-	02 . 141	7335GEC 2389GEC 62488EC	0 .4011	709750(.494550(!573960))		•										
21	107	197460E- 140449E- 218473E-	02 16 01 46	95918E0 8254E-0 7438E-0	0601	369E-0 465E-0 6860E0	1 1								÷			•	
		853984E- 649964E-	02 - 17	68988E0 3233E-0	0 ,2971	1692E0													

Table V. 7.5-Foot 4-Blade Rotor Reduced Experimental Nondimensional Hub Moment Data

10	CFG	₽.	4 11	тно	THS	THE	4L	. rp	CL	: CM& PC	<u>Č</u> MTD4	CL403.	Lfini
999	1	42.5	0. 24	0.0	-0,0110	0.0166	0.0	0: 0045	0.2061	+0,0003	-0.0001	0.0000	0.0002
*97	ι	1.56	0.74	0.0173	-0.0104	0.0165	0.0	0.0079	-0.3019	-0.0000	-0.0001	-0.0001	0.0005
220	1	1.56	0.74	0.0342	-0.0105	0.0144	0.0	0.0104	0.0010	0.0001	-0.0001	- 0.0002	0.0004
600	1	1.56	0. 24	0,0515	-0~0112	0.0171	0.0	0,0131	0,0045	0.0005	-0.0004	-0.0005	. 0.0000
rol	1	1.56	0. ?4	0.0626	-9.0106	0.0163	0.0	0.0170	0.0023	7.000	-0.0307	- 0. 0004	-0.0004
665	1	1,56	0.74	0.0853	-0.0112	0.0160	0.0	0.0209	0.0142	0.0001	-0.000	-0.0007	-0.0007
P04	1	2.56	0. 26	0.0164	-0.0283	0 0104	0.0	0, 0044	11-0,0069	-0.0002	0.0072	0.011.	
pos.	1	1.56	0.26	0.0166	-0.0077	0.0133	0.0	0.0070	-0.7713	0.0001	-0.0001	-0.0003	0.000*
005	t	1.56	0.26	0.0166	0.0106	0.0190	0.0	0.0115	0.7032	0.0000	-0.0001	-0.0003	0.0005
907	ı	1.56	0,26	0,0166	0,0297	0.0100	0,0	0, 0129	. 0.0062	0:0000	-0.0000	-0.0007	. 0.0004
6.00	1	1.56	0.24	0.0164	0.0475	0.0100	0.0	0.0162	0.1123	0.0002	-0.00039	-0.0000	0.1013
800	1	1,55	0.24	0.0164	-0.0271	0.0100	0.0	0.0045	-9.3041	0.0001	0.0005	0.0002	0.0003
 00	<u></u> l	1,56	0. 25	0,0164	-0.7454	0.0146	0,0	-0.0019	0.3172		9.0003	0.0003	∪* ∪ົບ, ບີ ""
cul	ı	1,56	U* 24	0.0166	-0-:) o ≤ 0	0.0162	0.0	-0.0035			0.0030	0.0005	0.0011
205	1	1.56	0.26	0.016?	-0.0?91	0.0100	0.0	0.0040	-0.0071	-0.0005	0.0005	0.0003	0.000
CO3	ı	1.56	0. 54	0.0166	-0.0501	0.0375	0 0	-0 0000	-0.3952	F 0000 0-	, მ მიიწ	0.0075	0.000
0 D F	1	1,56	۸۹ ۵۰	0.0164	-0.0201	0.0555	0.0	-0.0040			0.0003	0.0004	0.000
004	. 1	1,56	0.26	0.0166	-0.0201	ሳ. 0731	0.0	-0.0106	-0.0023		1.0014	0.000	0.0004
_ °05	ı	1.56	0.24	0., 0146	-0.0201	U Osão	0.0	-0.0135	-ù•Juī∍	-0.0004	0.20002	0.0052	Ú•ù uu a ∵‴
-U 3	1	1.56	U* 34	0.0162	10.0001	0.0169	0.0	0.7048	-0.7047		0.0003	0.0001	0.707
cga	1	1.56	0.24	0.0162	-0.0205	-0.0211	n. 0	0.0147	-0.0119		-0.001 t	-0.000?	0.000
ანა	1	1,56	0.54	0.0164	-0,0205	-0.0794	0.0	0.0107	-0,3142		0,0001	-0.0003	0.0007
ciu	ı	1.56	0.26	0.0164	-0.0233	-0.0503	0.0	0.0231	-0.0142		-0.0003	-0.0104	0.007
.012	1	1.56	0.59	-0.0002	-0.0124	0.0213	0.0	0.0043	-0.7045	-0.0005	0.0004	0.0005	0.0011
013.		1,56	. 0.50	0.0171	-0, 9124	0.0?13	ი, ი	0,0004	0_00012	0,000s	-0.0012	0.0002.	nonn
714	1	1,56	.0. " P	0.0342	-0.0124	0.0213	0.0	0.0131	0.3057	-0.0003	-0.0014	-0.0003	0.0004
015	1	1,56	0.50	0.0515	-0.0134	0.0213	0.0	0.0169			-0.0010	-0.0004	0.0003
014	l	1.56	0.50	0.0600	-0.0124	0.0213	0.0	0.0200			-0.00.0	-0.0007	-0 0000
c l a	1	1.56	0. * 0	0.0160	0.0300	0.0711	0.0	0.0041			0.0001	0.0011	0.0000
elo	1	1.56	0.50	0.0168	-0.0110	0.0213	0.0	0.0004			-0.0001	-0.0001	0.0007
010	l	1,56	0.59	0.0169	0.0080	0.0211	0 / 0	0.0143			-0.0003	,-0 0003	0,0000
6 50	1	1.56	0. **	0.0140	0.0255	0.0213	0.0	0.0173	0.0113		-0.0015	. - ∩. ∩∩ ງ a	0.000
15.5	ı	1.56	0.50	0.0169	-0.0305	0.0213	0.0	0.0040			0 •000 \$	0.0002	0.0010
0.55	1	1.56	0.50	0.0169	-0.04 95	0-0?13	0.0	-0.0005	-0.7145		0.0006	0.0004	0.0007
6.23	1	1.56	0.59	0.0168	-0.04.01	0.021	0.0	-0.0030	-0.0199		0.0015	0.0003	0.0007
c 24	1	1,56	0.50	0.0166	-0.0302	0.0211	0.0	0.0041	-0.3046		0 • 10.1 \$	0.0002	0.0007
. 025	1	1.56	0. " "	0.0168	-0.0305	0.0412	0,0	-0, 0023	-0.0061		0.0007	01 0 0 0 3 °	0.0003
676	1	1.56	() · « n	0.0168	-0.0302	0. 05 PA	0.0	-0.0063			0.0000	0.0012	0.0015
030	ļ	1.56	0.30	-0.0003	-0.0138	U* 05ee	0.0	0.003?			7 • 000	0.0000	0.00! 5
040	1	1,56	0.70	0.0166	-0.0140	0 0257	0.0	0-0106			0,0004	0.0006	0.0013
941	1	1,54	0. 20	0.0340	-0.0140	0.0255	0.0	0.0172			-0.0004	-0.0005	0.0010
643	ŗ	1.56	0.79	0.0476	-0.0140	0.0257	0.0	0.0214			-0.0000	-0.0006	0.0012
943	. !	1.56	0.70	0.0077	-0, 3143	0.0257	0.0	0,0078	-0.0019		דר הה, ס	0-0009	0.001 ?
044	1	1.56	0.70	0.0077	-0.0216	0.0262	0.0	0.0070			0.0006	0.0011	0.0013
045	I.	1.54	0.30	0.0079	-0.0030	0.0242	0.0	0.0134			-0.0004	-0.0000	0.0015
744	1	1.56	0. 0	0.0077	0.0161	0~0545	n, o	0,0196	0.0103	-0.0014	-0,0005	-0.0007	0.0017

Table V. (Continued)

	10	· rfç	Þ	MU	TH0	THS	THE	4 L	C4	, CL	CM4 PC	C#405	<u> የ</u> ር ፋዎሮ	רנגהיי	
	047	1	1.56	0.70	0-0077	-0.0223	0. 0264	0.0	0.0053	-0.0052	-0.000°	0.0007	0.0000	0.0014.	
	640	1	1.56	0.70	0.0077	-0.9407	0.0563	0.0	-0.0031	-0.0160	-0.0004	0.0012	0.0015	0,0014	
	640	t	1.56	0.70	0.0077	-0.9464	0.0262	0.0	-0.0065	-0.0209	-0.0001	0.0010	0-0020	0.0000	
	0.0	1	1.56	0.70	0.0077	-0.0220	0.0264	0.0	0.0050	-0.0053	-0.0007	0.0000	0.0011	0.0015	
	0 = 1	t	1.56	0.70	0.0077	-0.0219	0.0439	0.0	-0.0014	-0.0047	-0.0000	0.0014	0.0013	0.0015	
	957	t	1.56	0.70	0.0077	-0.0310	0.0413	0.0	-0.0076	-0.0036	-0.0004	0.0012	0.0012	0.007.9	
	953	1	1.56	0.70	0.0077	-0.0214	0, 0300	0.0	0.0026	-0.1050	-0.0005	0.0000	0.0010	5 100.0	
	054	1	1.56	0.79	0.0077	-0.0220	0.0154	0.0	0.0004	-0.0056	-0.0000	7.000	9.0005	0.0011	
	055	1	1.56	0.79	0.0077	-0.0?19	-0.0029	0.0	0.0150	-0.3077	-0.0005	0.0002	0.0001	0-00-0	
	956	1	1.56	0.70	0.0075	-0.0220	-0,0204	9.0	0.0100	-0.0125	-0.0002	-0.0010	-0.0004	0.0000	
	G E U	· t	1.56	0.04	0.0	-0.0155	0.0225	0.0	0.0039	-0.0050	-0.0010	0.0012	0.0014	0.0015	
	CEO	ı	1.56	0.06	0.0075	-0.0157	0.0205	0.0	0.0075	-0.3017	-0.0000	0.0003	0.0007	0. 001 9	
	o+0	1	1.56	0.96	0.0149	-0.0157	0, 0295	0.0	0.0144	0.0063	-0.0004	-0.0005	0.0000	0.0021	
	130	ì	1.56	0.96	0.0251	-0.0157	0.0205	0.0	0.0171	0.0098	-0.0011	0.0000	-0.0003	0.0017	
	967	1	1.56	0.06	0.0337	-0.0157	0.0795	0.0	0.0224	0.0153	-0.0000	-0.0000	-0.0009	0.0015	
	963	1	1.56	0. 64	0,0094	-0.0243	0, 0747	0, 0	0.0051	-0.00 FP	-0.00ne	0.0008	0.0010	0.0014	
	CA4	ī	1.56	0.06	0.0094	-0.0066	0.0267	0.0	0.0150	0.0050	-0.0000	-0.000*	-0.0001	0.0010	
	045	ĭ	1.56	0.06	0.0096	0.0113	0.0267	0.0	0.0220	0.0137	-0.0014	-0.0015	-0.0012	0-0024	
	965	i	1.56	0.96	0,0006	-0.0244	0.0347	0.0	0.0053	-0.3057	-0.0007	0.0014	0.0013	0.0011	
	967	i"	1.56	0.06	0.0096	-0.0372	0.0267	0.0	-0.0000	-0.2127	-0.2005	0.0017	0.0015	0.0003	
	040	i	1.56	49.0	0.0096	-0.0251	0.0293	0.0	0.0046	-0.2057	-0.0000	0.0000	0.0013	0.0013	
	010	i	1.56	0.06	0,0096	-0.0251	0.0414	0.0	0.0007	-0.0034	-0.0007	0.0016	0.0014	0.0016	
	670	i	1.56	0.96	0.0096	-0.0250	0.0496	0.0	-0.0032	-0.2035	-0.0000	0.0021	0.0021	0.0013	-
	971	i	1.56	0.96	0.0095	-0.0251	0.0290	0.0	0.0027	-0.0074	-0.0006	0.0000	0,0014	0.0013	
	672	ī	1.56	0. 44	0.0096	-0.0251	0.0099	0.0	0.0118	-0.0044	-0.0004	0.0000	0.0005	0.0013	
	973	· i	1.56	0.96	0.0096	-0.0251	-0.0093	0.0	0.0102	-0.0027	-0.0003	-0.000	-0.0004	0.0011	
	070	i	1.33	0.70	0.0	-0.0077	0.0150	0.0	0.0024	-0.0037	-0.0004	0.0002		-0,0001	
	900	i ·	1.33	0, 2°	0.0173	-0.2070	0.0152	0.0	0.0045	-0.3024	-0.0001	0.0003	-0.0000	-0.0003	
	991	ī	1.33	0.20	0.0347	-0.0079	0.0152	0.0	0.0069	-0.0011	0.0001	0.0003	-0.0000	-0.0004	
	002	i	1.33	0.50	0.0518	-0.0079	0.0152	0.0	0.0094	0.0001	0.0002	0.0024	0.0000		
	003	i	1.33	0.29	0.0693	-0.0079	0.0152	0.0	0.0123	0.3019	0.0004	0.0003	-0.0001	-0.0003	
	684	î	1.33	0.20	0.0771	-0.0079	0.0152	0.9	0.0135	0.3027	0.0005	0.0003	0.0000	-0.0004	
	905	ì	1.33	0.30	0.0149	-0.01P5	2.0169	0.0	0.0025	-0.3034	-0.0003	0,200?	0,0001	-0.0003	
	984	i	1.33	0.20	0.0160	2.0023	0.0166	0.0	0.0053	-0.3012	-0.0000	0.0003	-0.0001	-0.0003	
-	CAT	î	1.33	0.50	0.0169	0.0197	0.0166	0.0	0.0093	0.3015	0.2001	0.0001	-0.0000	-0.0003	
	000	i	1.33	0.30	0.0169	0.0377	0.0168	0.0	0.0115	0.0041	0.0003	0-0001	-0.0001	- 0.0004	
	000	i	1.33	0.20	0.0169	0.0546	2.0169	0.0.	0.0140	0.3071	0.0005	0.0001		0.0005	
	000	ī	1.33	0.29	0.0149	-0.0176	0.0164	0.0	0.0024	-0.0033	-0.0003	0.0002	0.0000	-0.0003	
	991	i	1.33	0.20	0.0169	-0.0394	0.0169	0.0	-0.0012	-0.0070	-0.2003	0.0003	0.0001	-0,0002	
	202	i	1.33	0.20	0.0140	-0, 957R	0.0169	0.0	-0.0012	-0.0079	-0.0006	0.0002	0.0001	-0.0002	
	963	i	1.33	0.20	0.0149	-0.0775	0.0159	0.0	-0.2050	-0.0133	-0.0000	0.0004	0.0001	-0.0003	
	1000	i	1.33	0.20	0.0163	-0.0141	0.0169	0.0	0.0029	-0.0133	-0.0002	0 - 00 7 3	0.0000	-0,0003	
	1001		1.33	0.20	0.0169	-0.0143	0.0149	0.0	-0.0024	-0.3019	-0.0003	0.0000	O.00001_		
	1002	i	1.33	0.20	0.0169	-0.0143	0.0520	0.0	-0.0049	0.2001	-0.0005	0.000	0.0001	-0.0002	
	1003	i	1.33	0.20	0.0169	-0.0143	0.0702	0.0	-0.0094	0.0025	-0.0005	-0.0002	010003	-0,0000	

Table V. (Continued)

		• •		-											
	10	CFG	. P	MIT	THO	THS	THS	ΑL	CM	CL	. CM4PC	CMPDE	CL 495.	CL4PS	
	1005	1.	1.33	. 0. 20	0.0160	-0.0143	0.0175	0.0	0.0023	0.0037.	0.0003	0.0002	0.0000	0.0002	
• • •	1005	i	1.33	0.20	0.0160	-0.0140	-0.0023	0.0	0.0066	-2.3060	-0.0002	0.0003	0.0002	-0.0003	
	1007	1	1.33	0.20	0.0144	-0.0143	-0.0214	0.0	0.0106	-0.00.90	-0.0004	0.0004	0.0002	-0.0001	
	1025	1	1.33	0.40	0.0166	-0.0103	0.0586	0.0	-0.0054	0.0010	-0.0007	0.0003	0.0003	-0.0004	
	1026	ı	1.33	0.40	0.0164	-0.0193	0.0744	0.0	-0.0096	0.0033	-0.000	0.0000	0.0003	-0.000?	
	1020	1	1.33	0.40	0.0164	-0,0103	0,0045	0.0	0,0057	-0.0059	-0.0005	0,0002	0.0001	-0.0004	
	1030	_ 1	1.33	0.40	0.0162	-0.0187	-0.0324	0.0	0.0148	-0.1103	-0.000F	0.0005	0.0000 .	0.0004	
•	1035	i	1.37	0. 54	0.0	-0.0141	0.0244	0.0	0.0016	-0.3036	-0.0004	0.3004	-0.0001	-0.0003	
	1036	1	1.33	0. 4	0.0161	-0.0143	0.0244	0.0	0,0069	-0.0002	-0.0004	0.0003	0,0000	-0:0004	
	1037	i	1.33	0.54	0.0340	-0.0143	0. 0244	0.0	0.0124	0.0041	-0.0003	0.0000	-0.0002	-0.0004	
•	1039	1	1.33	0. 4	0.0422	-0.0143	0.0744	0.0	0.0139	0.1055	-0.0004	0.0000	-0.0000	-0.0004	
٠	1032	i	1.33	0.54	0.0072	-0.0143	0,0744	0.0	0,0044	-0.3014	-0.0007	0,0002	0.0111	-0.0004	
	1040	i	1.33	0.54	0.0070	-0.0225	0.0220	0.0	0.0020	-0.3039	-0.0000	0.0005	0.0001	0.0005	
	1041	- i ·	1.33	0.54	0.0070	-0.0033	0.0339	0.0	0.0093	0.2010	-0.0004	0.0003	0.0001	-0.0004	
	1043	ı	1.33	0.54	0.0070	0.0241	9-0227	0.0	0,0155	0.0040	-0,0004	-0.0004	-0,0002	-0.0002	
	1044	1	1.33	0.54	0.0070	-0.0214	0.0223	0.0	0.0017	-0.1042	-0.0005	0.0078	-0.0001	-0.0004	
	1045	1	1.33	0.56	0.0070	-0.9397	0.0230	0.0	-0.0024	-0.0076	-0.0010	0.0016	0.0003	-0.0004	
	1046	1	1.33	0.54	0.0070	-0.0560	0,0550	0.0	-0,0074	-0.3119	-0.0011	0.0010	0.0005	-0.000	
	1047	l	1.33	0. 54	0.0070	-0.0195	0.0234	0.0	0.0021	-0.2036	-0.0004	0.0006	-0.0001	-0.0005	
	1045	1	1.33	0. 4	0.0072	-0.014	0.0415	0.0	-0.0010	-0.0012	-0.0000	0.0005	0.0002	-0.0004	
	1043	i	1.33	0. 4	0.0077	-0-0124	0.0523	0.0	-0,0056	0.0006	-0.0000	0.0005	0.0004	-0.0003	
	1050	1	1.33	0.54	0.0070	-0.0194	0.0731	0.0	-0.0087	0.0028	-0.000°	0.0000	0.0007	-0.0004	
•	1051	ĩ	1.33	0.54	0.0070	-0.0107	0.0267	0.0	0.0025	-0.0023	-0.0006	0.0005	-0.0003	-0.0004	
	1052	i	1.33	0.54	0-0070	-0.0107	0, 0084	0, 0	0.0050	-0.3052	-0.0005	0.0002	-0.0001	-0.0004	
	1053	ī	1.33	0.54	0.0070	-0.0195	-0.0104	0.0	0.0006	-0.0076	-0.0006	0.0003	-0.0002	-0.0004	
	1054	i	1.33	0.54	0.0070	-0.0195	-0.0245	0.0	0.0135	-0.0009	-0.0004	0.0003	-0.2022	-0.0004	
	1040	1	1.33	14.0	0.0	-0-0149	0.0288	0,0	0,0018	-0,2032	-0.0010	0,0007	0.0000	-0.0006	
	1061	ī	1.33	0.66	0.0020	-0.0150	0. 0209	0.0	0.0059	-0.3004	-0.0000	0.0005	-0.0000	-0.0007	
•	1062	í	1.33	0.66	0.0166	-0.0150	0. 0229	0.0	0.0000	0.1020	-0.000	0.0004	-0.003?	-0.0004	
	1063	i	1.33	44.0	0.0253	-0.0150	0.0299	0.0	0.0125	0.2049	-0.0004	-0.0001	-0.0003	-0.0005	
	1044	1	1.33	0.46	0.0339	-0.0150	0. 0288	0. 0	0.0164	0.0078	-0,0002.	-0,0003	-0,0009	0.0005	
	1065	1	1.33	44.0	0.0070	-0.0237	0.0274	0.0	0.0030	-0.2035	-0.0007	0.0007	-0.2021	-0.0007	
	1066	i	1.33	44.0	0.0070	-0.0058	0.0774	0.0	0.0091	0.0007	-0.0007	0.0001	-0.0003	-0.0005	
	1067	i	1.33	0.66	0.0070	0.0059	0.0274	0, 0	0.0146	0.0050	-0.0005	0,000	-0.0004	-0.0003	
	1069	1	1.33	0.66	0.0070	0.0145	0.0274	0. 0	0.0176	0.0072	-0.0004	-0.0005	-0.0005	-0.0005	
	9401	ī	1.33	0.66	0.0070	-0.0216	0.0274	0.0	0.0034	-0.0025	-0.0007	0.0007	-0.0001	-0.0007	
	1070	i	1.33	0.46	0.0070	-0.0302	0, 0274	0.0	-0,0000	-0.3061	-0.0000	0,0000	0,0004	-0.0004	
	1071	ĺ	1.33	0.66	0.0070	-0.0382	0.0274	0.0	-0.0046	-0.3094	-0.0010	0.0010	0.0003	-0.0007	
	1077	1	1.33	0.66	0.0070	-0.0246	0.0290	0.0	0.0018	-0.0033	-0.0007	0.0007	0.0000	-0.0004	
	1073	i	1.33	0. + 4	0.0070	-0-0246	0-0372	0.0	-0,0011	-0.2031	-0,0009	רַחַרַח, ח	- 0- 0000	-0.0005	
	1074	i	1.33	0.66	0.0070	-0.0246	0.0463	0.0	-0.0036	-0.3019	-0.0011	0.0000	0.0003	-0.0006	1
	1075	i	1.33	0.66	0.0070	-0.0246	0.0557	0.0	-0.0054	-0.2008	-0.0012	0.0010	0.0006	-0.0005	
	1076	ĺ	1.33	0.66	0.0070	-0.0246	0.0441	0,0	-0,0093	-0.0004	-0,001*	0,0000		0.0002	
	1077	i	1.44	0.66	0.0070	-0.0246	0,0260	0.0	0.0015	-0.2043	-0.0000	0.0007	0.0001	-0.0005	
	1970	1	1.33	0.44	0.0070	-0.0246	0.0161	0.0		-0.0055	-0.006	0.0003	-0.0004	-0.0004	1
	1070	1	1.33	0.66	0.0070	-0.0744	-0-0099	0.0	0.0100	-0.30°3	-0.0006	0.40002	- 0 , 0004	-0.0004	
	-														

Table V. (Continued)

						-								
	10	r er,	D	Ψ U	THO	THS	THE	۵L	CH .	. r ı	CM4 DC	CH40¢	, CL4PS	C1405
	1000	1	1.33	0.66	0.0070	-0.0249	-0.0176	0.0	0.0138	-0.3986	-0.0004	0.0004	-0.0003	-0.0007
•	1005	i	2.3?	0.79	0.0	-0.0LP5	0.0199	0.0	0.0151	-0.0?17	-0.0000	0.0014	0.0015	0.0000
	1086	i	2.32	0.78	0.0144	-0.0185	0.0150	0.0	0.0177		-0.0100	0.0005	0,0013	0.0070
	1987	ī	2.32	0.78	0.0340	-0.0197	0.0190	0.0	0.0211	-0.1049	-0.0094	0.0046	0.7745	0.0045
	1000	ī	2.32	0.78	0.0517	-0.0193	0.0100	0.0	0.0267	0.2003	-0.0032	0.0047	0.0055	0.0020
	1000	i	2.32	0.70	1040.0	-0.01	0.0100	0.0	0.0205	0.3169	-0.0024	0.0040	0.0049	0,0014
	1000	i	2.32	0.78	0,0959	-0.01P5	0.0100	0.0	0.0333	0.0269	-0.0021	0.0047	0.0051	0.0005
	1001	i	2.32	0.78	0.0160	-0.0125	0.0190	0.0	0.0102	-0.2112	-0.0003	0.0014	0.0018	0.0043
•	1002	i	2.32	0.70	0.0144	-2.0400	0.0193	0.0	0.0159	-0.2176	-0.0007	0.0034	0.0034	0.0091
	1003	i	2.32	0.78	0.0164	-0.01.23	0.01.5	0.0	0.0197	-0.0107	-0.0070	-0.0011	0.0006	0.0046
	1004	ī	2.32	0.79	0.0143	0.0009	0.0125	0.0	0.0232	-0.2022	-0.2035	0.0020	0.2020	0.0020
	1005	i	2.32	0.70	0.0166	0.0105	0.0103	0.0	0.0221	0.2075	0.0005	0,0024	0,0024	-0,0020
	1004	i	2.32	0.78	0.0164	0.0382	0. (33	0.0	0.0311	0.0144	0.0011	-0.0004	0.0001	-0.0023
•	1007	ĩ	2.32	0.78	0.0161	95 PI	0.0123	0.0	0.0355	0.2253	0.0065	0.0000	0.0014	-0.0075
	1000	i	2.32	0.78	0.0166	-0.0435	0.0107	0.0	0.0143	-0.0241	-0.0125	0.0000	0.0021	0.0103
	1000	i	2.32	0.78	0.0166	-0.9777	0.0127	0.0	0.0081	-0.0352	-0.017	9.0025	0.0043	0.0144
	1100	ĩ	2.32	0.70	0.0166	-0.0974	0.0185	0.0	0.0045	-0.7463	-0.0214	0.0050	0.0070	0.0145
	1101	i	2.32	0.78	0.0162	-0.1086	0.0195	0.0	0.0030	-0.3503	-0.0212	0.0060	0.0002	0.0144
	1102	1	2.32	0.70	0,0164	-0.0438	0.0187	0.0	0.0141	-0.7212	-0.0127	0.0010	0.0027	0.0102
	1103	ī	2.32	0.79	0.0166	-0.0436	0.0354	0.0	0.0074	-0.0233	-0.0130	-0.0039	-0.0024	0.0101
	1104	ŧ	2.32	0.78	0.0162	-0.0433	0.0532	0.0	0.0014	-0.3213	-0-0132	-9.0054	-0 0040	0.0111
	1105	1	2.32	0. ""	0.0164	-0.0433	0.0725	0.0	-0.0050	-0.3205	-0.0147	-0.0052	-0.0044	0.0122
	1104	ı	7.37	0.78	0.0144	-0.0433	0.0000	0.3	-0.0104	-0.3106	-0.0140	-0.0043	-0.0030	0.0122
	1107	ι	2.32	0.70	0.0164	-0.0394	0.0100	0.0	0,0144	-0.0230	-0.012?	0.0007	0.0015	0.0014
	1109	t	?.32	0. 74	0.0166	-0.0394	-0.0202	0.0	0.0297	0.0746	-0.0105	0.0048	0. 2050	0.0002
	1102	t	2.32	0.70	0.0144	-0.0364	-0.0564	0.0	0.0430	-0.7?79	-0.0007	0.0008	0.0104	0,0074
	1110	i	2.32	0.78	0.0164	1980.0-1	-0.0761	0.0	0.0507	-0.0259	-0-0003	0.0141	0.0143	0.0944
	1113	1	2.32	1.07	0.0	-0.0157	0.0716	0.0	0.0153	-0.3177	-0.0143	0.0010	0.0017	0.0104
	1120	t	2.32	1.07	0.0171	-0.01.52	0.0216	0.0	0.0127	-0.7076	-0.0115	0.0047	0.0041	0.0004
	1121	1	2.32	1.07	0.0344	-0.0152	0.0216	0.0	0, 0290	0.2119	-0.0071	0.0047	0.0047	0,0043
	1122	1	2.32	1.07	0.0527	-0.9154	0.0216	0.0	0.0336		0.00° t	0.0004	<u> </u>	0.00?4
	1123	1	2.32	1.07	0.049R	-0.0152	0.0216	0.0	0.0433	0.7442	0.0000	0.0115	0.0104	-0.0022
	1154	ı	2.32	1.07	0.0166	-0.0157	0.0214	0.0	0,0202	-0.0070	-0.0113	0.0046	0.9031	0.0003
	1125	1	2.32	1.05	0.0144	-0.0307	0.018?	0.0	0.0170	-0.0167	-0.0162	0.0039	0.0749	0.01??
	1124	ļ	2.32	1.06	0.0164	-0.0173	0.0192	0.0	0.0241	-0.2031	-0 • 0 0° 1	0.0010	0.0055	0.0055
	1127	1	2.32	1.06	0.0166	0.0019	0.0172	0.0	0.0305	0,0076	-0.0070	0.0053	0.0040	0.0946
	1129	l ,	2.32	1.06	0.0166	0.0133	0.0102	0.0		0.01P3	0.0016	0.0030	0• 005k	-0.0006
	1150	1	2.32	1.04	0.0166	0.0369	0.0192	0.0	0.0444	0.0336	0.0057	0 •000 \$	0.0074	-0.0045
	1130	ı	5.32	1.06	0.0166	-0.0370	0.0103	0.0	0.0148	-0.0210	-0.0150	-0-0002	0.0014	0.0122
	1371	I	2.32	1.04	0.0166	-0.0578	0.0122	0.0	0.0002	-0.0350	-0.0273	0.0032	0.0051	0.0150
	1132	1	2.32	1.06	0.0143	-0.2769	0.0190	0.0	0.0019	-0.7471	-0.0271	0.0019	0.2044	0.0103
	1133	Ļ	2.32	1.06	0.0166	-0.0377	0.0192	0.0	0.0153	-0.0197	-0.0155	0,0054	0,0065	0.0117
	1174	. 1	2.32	1.06	0.0166	-0.0377	-0.0017	0.0	0.0239	-0.1207	-0.017?	0.0023	_ 0.000R.	0.0115
	1136	1	2.37	1.06 1.06	0.0164	-0.0377	-0.0192	0.0	0.03?6	-0.3214	-0.0157	0.0128	0.0124	0.0004
	1137		2.32	1.06	0.0164	-0.0374	~0,0303	0.0	0.0419	-0.0207 -0.0231	-0.0126	0.0164	0.0147	0.0054 0.0002
	1177	1		1 4 9 9	0.0 U L **	-7.0374	-0.0574	0 . 0	0.0497	-0.0163[-0.9111	0.0711	0.0550	9•0 my**

Table V. (Continued)

		•											
10	CEG.	P	411	THO	. THS	THC	٨L	ÇM .	Ct	CMPDC	CM405	רַנַ 4פּרַ	Ç1 40¢
1134		2.32	1.06	0.0166	-0.0374	´_ 0. 01 64	0.0	0,0164	-0-0191	0.0146	0.901.4_	0.0039	0.0106
1130		2.32	1.06	0.0156	-0.0374	0.0360	0.0	0,0073	-0.3191	-0.0101	-0.0006	0.0007	0.0130
1140	i	2.32	1.06	0.0164	-0.0374	0.0577	0.0	0.0010	-0.0167	-0.0163	-0.00°t	-0.0055	0.0129
1141	i	2.32	1.05	0.0146	-0.0372	0.0717	0.0	-0.0095	1010.0-	-0.0100	-0.0003	-0.0023	0.0174
1145	i	2.32	1.44	0.0	-0.0131	0.0257	0,0		-0.3177	-0.2151	0,0055	0.0054	0.0107
1146	i	2.32	1.44	0.0173	-0.0133	0.0257	0.0	0.0761	0.0045	-0.0106	0.0072	0.0072	
1147	i	2.32	1.44	0.0344	-0.0133	0.0257	0.0	0.0402	0.3343	-0.0029	0.0120	9.0117	0.0003
1140	i	2.32	1.44	0.0426	-0.0131	0.0255	0, 0		9.3440	-0.0054	0.0116	0,0104	0.0016
1140	i	2.32	1.44	0.0075	-0.0131	0.0255	0.0	0.0203	-0.3092	-0.0137	0.0078	0.0075	0.0002
1150	i	2.32	1.44	0.0075	-0.0250	0.0241	0.0	0.0153	-7.7190	-0.0153	0.0047	0.0051	0.0105
1151	i	2.32	1.44	0.0075	-0.0068	0.0341	0.0	0.0261	-0.2003	-0.0131	0.0044	0.0056	0.0093
1152	i	2.12	1.44	0.0075	0.0119	0.0741	0.0	0.0350	0.0127	-0.0044	2.0054	0.0053	0.2017
1153	ī	2.32	1.44	0.0075	0.0257	1,1250	0.0	0.0465	0.1337	0.0016	0.0194	0.0135	-0.0041
1154	i	2.32	1.44	0.0075	-0.0239	0.0750	0.0	0.0143	-0.0175	-0.0147	0.0054	0,0049	0.015.7
1155	i	2.32	1.44	0.075	-0.0433	0.0750	0.0	0.0027	-0.2374	-0.0745	0.0011	0.0000	0.0176
1184	ī	2.32	1.44	0.0075	-9.1332	0.0250	0.0	ก, กาก 5	-0.2276	-0.0217	0.0077	0.0132	
1157	ī	2.3?	1.44	0.0075	-0.0255	0.0241	0.0	0.0122	-0.0211	-0.0745	0.0012	0,0049	0.0175
1150	i	2.32	1.44	0.0077	-0.0254	0.0419	0.0	0.0017	-0.3238	-0.0232	-0.9013	0.0047	0.0191
1150	ĭ	2.32	1.44	0.0075	-0.0257	0.0=00	0.0	-0.0087	-9.9239	0,0073	-0.0050	-0.0055	-0.0045
1160	i	2.32	1.44	0.0073	-0.0257	0.0215	0.0	0.0130	-0.0230	-0.0103	0.0024	0.0112	0.011?
1161	ī	2.32	1.64	0.0075	-0.0257	0.0344	0.0	0.0244	-0.0201	-0.0153	0.0145	0.0171	0.0073
1142	ī	2.32	1.44	0.0075	-0.0258	-0.0141	0.0	0.0342	-0.0197	-0.0146	9.0215	0.0310	0.0014
1163	ĭ	2.3?	1.44	0.0075	-0.0258	-0.0201	0.0	0.9448	-0.3160	-0.0121	0,0212	0.0277	-0.0016
1165	i	2.32	1.75	0.0	-0.0110	0.0220	0.0	0.0204	-0.0121	-0.0156	0.0047	FPC0.0	0.0009
1166	ī	2.32	1.75	0.0079	-0.0110	0.0230	0.0	0.0304	0.2031	-0.00° t	0.01=4	. 0.0150	0.001.2
1167	i	2.32	1.75	0.0175	-0.0119	0.0200	0.0	0.0357	0.0195	-0.0002	0.0166	0.0159	0.000#
1169	i	2.32	1.75	0.0257	-0.0110	0.0208	0.0	0.0443	2.3352	-0.0013	2.01/0	0.0140	0.0010
169	3	2.32	0.59	0.0003	-0.0173	0.0164	0.0	0.0096	-0.2111	-0.0072	0.0016	0.0026	0.0079
140	3	2.32	0.50	0.017R	-0.0174	0.0160	0.0	0.0106	-0.0066	-0.0074	0.0006	0.0016	0.0077
170	3	2.32	0.50	0,0353	-0.0173	0.0164	0.0	0.0141	0.2011	-0.0052	0.0026	0.0035	0.0049
171	. 3	2.32	0.50	0.0531	-0.0174	0.0154	0.0	. 0.0171.	0.0079	-0.0024	0.0015.	0.0029	0.0023
172	3	2.32	0.59	0.0702	-0.0173	0.0164	0.0	0.0211	0.2170	-0.0017	0.0025	0,0034	0,000.0
173	3	2.32	0.59	0.0873	-0.0173	0.0161	0.0	0.023P	0.3232	9.0006	0.0032	0.0033	-0.0017
175	3	2.32	0.50	0.0175	-0.0384	0.0164	0.0	0.0093	-0.0133	-0.0004	0.0011	0.0022	0.0001
176	3	2.32	9.50	0.0176	-0.0202	0.0161	0.0	0.0106	-0.0074	-0-00-0	0.0011	0.0071	0.0072
177	3	2.37	0.50	0.0174	-0.1014	0.0166	0.0	0.0146	0.0004	-0.0041	0.0013	0.0021	0.0040
170	3	2.32	0.50	0.0176	0.0176	0.0164	0.0	0.0134	0.0074	-0.0021	-0.0003.	0.0113	0.001.3
179	3	2.32	· n.59	0.0176	0.0365	0.0161	0.0	· 0,0204	0.0129	0.0012	-0.0011	-0,0029	-0.001 #
190	3	2.32	0,50	0.0175	-0.0339	0.0164	- 0.0	0.0089	-0.3127	-0.0000	-0.0001	0.0012	0.0027
101	3	2.32	0.59	0.0176	-0.0780	0.0161	0.0	0.0031	-0.0292	-0.0120	0.0030	0.0053	0.0143
165	3	2.32	7.50	0.0175	-0.0001	0.0161	0.0	0.0003	-0.3361	-0.0142	0 • 00 • 1	0.0049	.O-0178
193	3	2.32	0.50	0.0175	-0.9340	0.0145	0.0	0.0090	-0.3114	-0.0070	-0.0012	-0.0000	0.0070
194	3	2.32	0.50	0.0175	-0.0349	0.0340	0.0	0.0016	-0.0129	-0.0101	0.0002	0.0014	0 • 011 0
105	3	2.32	0.50	0.0173	-0.0344	0.0531	0.0	-0.0044	-0.0111	-0.0026	-0.0000	-0.0003	0.0110
704	3	2.32	0.50	0.7173	-0.0344	n. 0714	0.0	-0.0106	-0.3105	-0.0117	-0.0035	-0.0034	0.0137
197	3	2.12	n. 58	0.0173	-0.0340	0.0122	0.0	-0.2140	1000.0-1	-0.0105	-0.0033	-0.0032	0.0127
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Table V. (Continued)

10	CFG	P	411	THO	THE	THC ,	řι	CM	ĊL	CM4 DC	CHAPS	CL 4PC	CL4P5	-
Įaq	3	2.3?	0.59	0.0173	-0.0347	0.0166	0.0	0.0097	-0.0116	0.000	0.0004	0.9017.	0.00^6	
ioa		2.32	0.58	0.0173	-0.0347	-0.0203	0.0	0,0724	-0.0135	-0.00F5	0.0053	0.0071	0.2005	
190	-	2.32	0.50	0.0173	-0.0347	-0.0578	0.0	0.0351	-0.0169	-0.0076	0.0003	0.0110	0.0073	
[03		2.32	0.80	-0.0005	-0.0183	0.0227	0.0	0.0069	-0.0134	-0.0104	0.0001	0.0015	0.0114	
104	-	2.32	0. 90	0.0176	-0-01P5	0,0727	0, 0	0.0124	-0.2010	-0.0078	0.0020	0.004?	0.0070	
100		2.32	0.00	0.0754	-0.0195	0.0223	0.0	0.0172		-0.0042	0.0053	0.0044	0.7059	
106	<u>.</u>	2.32	0.80		-0.0197	0.0223	0.0	0.0212	0.0203	-0.0020	0.0022	0.0044	0.0011	
lc7	່ ຶັ3 ໍ	2.37	0.00	0.0695	-0.01.05	0, 0223	0.0	0.0245	0.0287	-0,0021	0.0030	0.0052	7,000	
100		2.32	0.90	0.0175	-0.0195	0.0223	0.0	0.0112	-0.0022	-0.0003	0.0019	0.0034	0.0003	
100	• •	2.32	0.00	0.0176	-0.0398	0.0173	0.0	0,0086	-0.0107	-0.0123	0.0015	0.0039	0.0120	
300		2.32	0.40	0,0176	-0.0195	0,0171	0.0	0,0134	-0.0010	-0.0000	0.0010	0.0024	0.0070	•
201	. 3	2.32	0.00	0.0176	-0.0014	0.0173	0.0	0.0197	0.3097	-0.0043	0.0036	0.0047	0.2036	
202	3	2,32	0.20	0.0176	0.0176	0.0171	0.0	0.0235	0.0165	-0.0023	9.0014	0.0024	0.0014	
203	3	2.32	0.90	0.0176	-0.0409	0-0173	0.0	0,0078	-0.0133	-0.0124	0 - 001 4	0.0038	0.0131	
204	3	2.32	0.90	0.0176	-0.0535	0.0171	0.0	0.0043	-0.0213	-0.0143	9.0024	0.0050	0.0154	
205	3	2.32	0.00	0.0175	-0.0681	0.0173	0.0	0,0011	-0.0793	-0.0105	0.0041	9.0076	0.0170	
204	. 3	2.32	0.00	0.0176	-0.0363	0.01.00	0.0	0,0060	-0.3129	-0-0129	0.0016	0.0030	0.0137	
201	3	2.32	0. 00	0.0176	-0.0365	0.0392	0.0	0.0012	-0.0072	-0.0136	-0.0012	-0.0006	0.0143	
208	3	2.32	0.90	0.0176	-0.0365	0.0559	0.0	-0.0063	-0.3098	-0.0137	-0.0061	-0.0050	0.0152	
500		2.32	0.40	0.0176	-0.0345	0.0661	9.0	-0,0107	-0.0100	-0.0157	-0.0059	-0.0047	0,0102	
510	3	2.32	0. 20	0.0175	-0.0363	0. 0205	0.0	0.0070	-0.0125	-0.0154	0.0020	0.0240	0.0140	
211	. 3	2.32	0.90	0.0175	-0.0390	0.0015	0.0	0.0153	-0.0129	-0.0140	0.0063	0.0097	0.0130	
212	3	2.32	0.90	0.0175	-0.0392	-0.0337	0.0	0. 0299	-0.0162	-0,0100	0.0100	0,0134	0.0103	
213	3	2.32	0.80	0.0175	-0.0302	-0.0143	0,0	0.0100	-0.3167	-0.0110	0.0061	0,0038	0.0116	
233	3	1.55	0.29	0.0	-0.0131	0.0136	0.0	0.0019	-0.3036	0.0004	0.0003	-0.0001	0.000	
234	3	1.55	0. 30	0.0175	-0.0131	0.0136	0.0	0.0043	-0.0013	0.0006	0.000?	-0.0001	0.0003	
239	3	1.55	0.20	0.0347	-0.0131	0.0136	0.0	0-0067	0.3007	0,2004	-0.0003	0.0000	-0.0001	•
234	3	1.55	0.20	0.0524	-0.0131	0.0136	0.0	0.0002	0.0029	0.0006	-0.0000	0.0003	-0.0004	
237	, 3	1.55	0. 20	0.0340	-0.0127	C. 2138	0.0	0.0068	0.3005	0.0007	-0.0001	-0.0001	-0.000?	
239	3	1.55	0.29	0.0525	-0.0136	0.0136	0.0	0.0074	0.0029	0.000*	-0,0001	0.0001	-0.0005	
230	3	1.55	0. 20	0.0700	-0.0127	0.0133	0.0	0.0122	0.2057	0.000	-0.0004	-0.0002	-0.0000	
240	3	1.55	0.20	0.0149	-0.0237	0.0143	0.0	0.0022	-0.0036	0.0003	9.0004	-0.0000	0.0003	
74 [. 3	1.55	0.20	0.0160	-0.0921	0.0143	0.0	0.0075	0.2014	0 - 0 00 7	0,0001	- 0.0000	0.0001	
242	3	1.55	0.29	0.0150	0.0151	0.0143	0.0	0.0091	0.0043	0.0006	-0.0000	-0.0002	-0.0001	
243	3	1.55	0.29	0.0169	0.0347	0.0147	0.0	0.0115	0.3093	0.000	-0.0003	-0.0001	-0.0002	
744	3	1.55	0.20	0.0169	-0.0229	0.0143	0.0	0.0032	-0.3035	0.0004	0.0003	-0.0000	0. 0 00 3	
245	3	1.55	0.30	0.0169	-0.0606	0.0143	0.0	-0.0032	-0.0123	0.000	0.0006	0.0001	0.0004	
247		1.55	0. 20	0.0148	-0.0230	0.0143	0.0	0.0021	-0.0039	0.0004	0.0001	-0.0001	0.0003	
24 A		1.55	0.20	0.0168	-0.0236	0.0143	0.0	0.00?5	-0.0034	0.005	0.0003	-0.0000	0.0003	
240		1.55	0. 29	0.0168	-0.0236	0.0321	0.0	-0.0032	-0.0021	0.0003	0.00021	0.2002	.0.0003	
5.40	-	1.55	U* 50	0.0169	-0.0239	0.0476	0.0	-0.0056	0.0001	-0.0001	0.0004	-0.0000	0.0002	
251		1.55	U° ša	0.0169	-0.0?36	0.0443	0.0	-0.0121	0.0013	-0.0001	0.0004	- 0- 0010	0,0004	
25?		1.55	U* 50	0.0149	-0.0236	0.0147	0.0	0.0022	-0.0036	0.0004	0.0003	0.0000	_0.0004	
2 4 1	_	1. 5	0.20	0.0140	-0.0243	-0.0058	0.0	0.0075	-0.7042	0.2004	0.0001	0.0001	0.0004	
254		1.55	0.50	0.0149	-0.0230	-0.0734	0.0	0.0124	-0.2097	0.0004	0.0003	0.0002	0.0006	
299	. 3	1.55	0. 29	0,0169	-0.0239	-0.0175	0.0	0.0168	-0.0098	0.0009	0.0003	. 0.0003	0.0005	

Table V. (Continued)

									•						
	in	ÇFG	P	Mij	THO	THS	THE	3.5	rw	CL	rul dr	CHADE		. CLAPS	
	•		,	•	*****	, .	• • •	<i>"</i> •				.,		. 42	
	SEV -		1.55	0.50	0.0160	-0.0230	0.0149	0. 0		-0.3037	0.0005		0.0001	0. 0004	
	747	3	1.55	0.40	0.0003	-0.0157	0.0173	9.0	0.0022	-0.7037	0.0004	0.0003	-0.0001	0.0004	
	25 q	3	1.44	0.40	0.0175	-0.0154	0. 01 73	0, 0	0.0052	-0.0005	0.0007	. 0.0005	-0.0002	0.0004	
	250	3	1.55	0, 40	0.0351	-0.0152	0.0173	0.0	0.0092	0.2033	0.000°	-0.0000	0.0000		
	. 0AS	3	1.55	0.40	0.0517	-0.0154	0.0173	0.0	0.0111	0.0067	0.0011	-0.0004	-0.0001	-0.0003	
	26 L	3	1.55	0.40	0.0171	-n. 02 9 9	0, 0174	0.0	0.0021	-0.0033	0.0007	0,0003	ე. იიიი	0.0007	
	242	3	1.55	0.40	0.0171	-0.0073	0.0176	. 0.0	0.0067	0.3012	0.0006	0.0001	-0.0003	0.0004	• • • •
	243	3	1.55	0.40	0.0171	0.0120	0.0174	0.0	0.0104	0.2063	0.000	-0.0001	-0.0003	0.0004	
	544	3	1.55	0.40	0.0171	0.0152	0, 0174	0,0	0.0123	0,1093	0.0000	-0.0005	-0.0005	0.0002	
	265	3	1.55	0.40	0.0173	-0.0298	0.0179	0.0	0.0017	-0.3041	. 0.0006	0.0005	0.0000	0.0007	.,
	244	3	1.55	0.40	0.0144	-0.0475	0.0174	0.0	-0.0013	-0.1082	4000.0	0.0004	-0.0000	0.0007	
	247	3	1.55	0.40	0.0173	-0.0613	0.0178	0.0	-0,0041	-0.0126	0.0005	0,0005	-0.0000	0.0006	•
	249	3	1.55	0.40	0.0171	-0.0294	0.0170	0. 0	0.0030	-0.0035	0.0004	0.0001	- 9.0000	0,0007	
-	260	3	1.55	0.40	0.0149	-0.0784	0.0384	0.0	-0.0034	-0.2011	0.0004	0.0015	0.0004	0.0004	
	270	3	1.55	0.40	0.0171	-0.02A3	0. 0° 01	0.0	-0.0066	-0.0000	0,0003	0,0005	-0.0001	0.0004	
	271	3	1.45	0.40	0.0160	-0.02*3	0.0579	0.0	-0.0098	0.0008	0.0002	9.0005	0.0003	0.0003	
	272	3	1.55	0.40	0.0140	-0.0?83	0.0174	0.0	0.0022	-0.2030	0.0005	0.0004	-0.0000	0.000*	
	273	3	1.55	0.40	0.0171	-0.02PA	-0.0033	0.0	0.0093	-0,0053	0.0004	0,0003	-0.0001	0.0007	
	274	3	1. 45	0.40	0.0173	-0.0204	-0.0125	0.0	0.0126	-0.0079	0.0000	0.0002			
	275	á	1.45	0.40	0.0171	-0.0?AP	-0.0274	0.0	0.0143	-0.2092	0.000	2.0001	-0.0003	0.000	
	50.5	3	1.55	0.54	-0.0002	-0.0173	0,0??3	0.0	0,0020	-0.3032	0.0007	0.0004	0.0003	0.0000	
	203	3	1.55	0.54	0.0004	-0.0171	0.0223	0.0	0.0042	-0.3005	0.0005	0.0004	0.0003	0.000	
	204	3	1.55	0.54	0.0100	-0.0173	0.0223	0.0	0.0046	0.2020	0.0004	-0.0001	-0.0001	0.0004	
	205	•	1.55	0.54	0.0267	-0.0173	0,0223	0.0	0, 2099	0.2057	0.0004	-0.0003	-0.0001	0.0004	
	204	. 3	1.44	0.54	0.0353	-0.0179	0,0723	0.0	0.0120	0.0094	0.0004	-0.0008	0.0002.	0.0022	
	304	. 3	1.55	0.54	0.0094		0.0304	0.0	0.0051	-0.2002	0.0005	0.0004	0.0001	0.0009	
	305	3	1.55	0.54	0.0093	-0.0176	0.0104	0.0	-0,0002	0.0011	0.0004	0.0005	0.0004	0.000	
	306	3	1.55	0.54	0.00-3	-0.0173	0.0545		-0.0070	0.3056	0.0003	0.0009	0.0010	0.000	
	307	3	1.55	0.54	0.0093	-0.0176	0.0773	0.0	0.0046	0.3006	0.0006	-0.0003	0.0005	0.0006	
	308	3	1.55	0.54	0.0003	-0.0173	0, 0024	0.0 0.0	0.0095	-0.2027	0.0003	-0.0003	- 0,0000	0.0006	
	309	3	1.55	0.54	0.0003	-0.0176	-0.0161	0.0	0.0156	-0.0042	0.0004	-0.0005	- 0.0003	0.0007	
-	310	3	1.55	0.44	0.0003	-0.0101	0.0259		0.0052	0.7007	0.000	0.0001	0.0001	0.0013	_
	311	3	1.55		0.0002	-0.0101	0.0257	0.0	0.0094	0.3047	0.000	-0.0002	0.0007	0.0011	
		-		0.66				0.0	0.0110		0.000	-0.0005	-		
	312	3	1.55	0.66	0.0193	-0.0101	0.0259	0.0		0.3081		-	-0.0004	0.0005	
	313	3	1.55	0.46	0.0246	-0.0105	0.0258	0.0	0.0126	0.0101	0.0010	-0.0007	-0.0007	0.0005	
	314	3	1.55	0.56	0.00%	-0.0510	0.0214	0-0	0,0037	-0.2020	0.0012	0 - 2000	0.0001	ი, იეი •	
	316	3	1.55	0.55	0.0096	0.0086	0.0213	. 0. 0	0.0166.		0.0002		0.0010.		_
	317	3	1.55	0.64	0.0086	-0.0199	0.0214	0.0	0.0057	0.3004	0.0005	0.0005	-0.0001	0.0004	
	319	3	1.55	0.66	0.00%	-0.040P	0,0716	0.0	-0.0023	-0.0091	0.0012	0.0011	0,0003	0,0006	
	312	3	1.55	0.66	0.0005	-0.0211	0.0239	0.0	0.0043	-0.0004	0.0007	0.0003	0.0001	0.000	
	320	3	1.55	0.66	0.0096	-0.0?11	0.0438	0.0	-0.0015	0.3018	0.0010	0.0010	0.0009	0.0009	
	321	3	1.55	0.66	0.0094	-0.0206	0.0423	Ö Ö	-0.0073	0.0033	0.0006	0.0010	0.0012	0.0004	
	3.55	3	1.55	0.46	0.0097	-0.0211	0.0257	0. 0	0.0048	0.0005 .	0.0011	0.0004		0.0nll	
	323	3	1.55	0.44	0.0007	-0.0200	0.0070	0.0	0.0038	-0.2020	0.000	-0 •000 \$	-0.0005	0.0009	
	374	3	1.55	0.46	0.0094	-0.0213	-0.019	0.0	0,0154	-0.0040	0.0012	-0-0002	-0.0010	0,0007	
	330	3	1.73	n. 36	-0.0003	-0.0079	0.0154	0.0	0.0042	-0.2035	-0.0003	0.0005	-0.0000	7.0705	

Table V. (Continued)

	+				-	ENT	FAT DATA ANALYSIS			25		···			
10	ÇFG	P	Mtf	TH0	THS	THÇ	ΔL	ГM	Ci.	CM4 PF	C4405	CL 4PF	ÇĻARS		
331	3	1.73	0.34	0.0190	-0.0079	0.0154	0. 0	0.0074	0.0000	0.0000	0.0000	0.0001.	0.0000		
337	3	1.73	0.36	0.0354	-0.0079	0.0154	0.0	0.0095	0.0030	0.0004	-0.0007	-0.0006	0.0001		
334	. 3	1.73	0.36	0.0702	-0.0079	0, 0150	0.0	0.0156	0.3107	0.0010	-0.0009	-0.0012	-0.0004		
331	5 3	1.73	0.36	0.0176	-0.0161	0.0175	0.0	0.0045	-0.3020	-0.000.1	0 .000 1	-0.0001	0.0005		
33/	. 3	1.73	0.36	0.0176	0.0012	0.0176	0.0	0.0005	0.0032	0.0001	-0.0000	-0.0000	0.0005		
33.		1.73	0.36	0.0176	0.0:00	0,0175	0.0	0.0105	0.0043	0.0004	-0.0005	-0.0004	0.0002		
331	•	1.73	45.0	0.0175	0.0365	0.0174	o. 0	0.0129	0.0110	0.0001	-0.0003	-0.0001			
339		1.73	0.34	0.0173	-0.0169	0.0170	0.0	0.0044	-0.3022	-0.000t	0.0003	0.0001	0.0000		
340		1.73	0. JA	0.0175	-0.0387	0.0174	0.0	0.0010	-0.1097	-0.0001	0.0003	0.0005	0.0003		
14		1.73	0.36	0.0175	-0.0565	0.0176	0.0	-0.0016	-0.3141	0.0005	0.0001	0.0004	0.000		
34		1.73	0.36	0.0175	-0.06°5	0.01	0.0	-0.0030	-0.0172	0.0002	0.0003	0.0004	0.001,4		
34		1.73	0.36	0.0175	-0.0240	0,0141	0.0	0, 0054	-0.0024	-0.0001	0.0001	- 0. 0000	0,0003		
344		1.73	0.34	0.0175	-0.0140	0.0326	0.0	0.0010	0.000	-0.0005	0.0005	0.0303			
341		1.73	AF.0	0.0175	-0.0140	0.0464	9.0	-0.0045	0.3036	0.0001		ი•იიიი	0.0003		
34/		1.73	0. 36	0.0176	-0.0143	በ በፋባኒ	0.0	-0-0109	0.0017	-0.0000	0.0002	-0.0004	0.0004		
37.		1.73	0.34	0.0175	-0.0143	0.0147	0 . n	0.0057	-0.0020	-0.0001	0.0000	0.0000	0.0003		
341	_	1.73	0.35	0.0175	-0.0138	-0.0043	0.0	0.0115	-0.3033	1000.0	0.0003	0.0001	0.300.		
34	-	1.73	0.36	0.0178	-0.0136	-0.0236	a. n	0,0172	-0.0061	-0.0000	0.0003	0.0001	0.0001		
35(•	1.77	0.36	0.0170	-0.0140	-0.0415	0.0	0.0237	-0.0066	0.0000	ე "ეიიც	0.0005	-0.0001		
357	-	1.73	0.40	- 0.0005	-0.0055	0.0133	0.0	0.0074	-0.00?3	-0.0003	0.0000	0.0005	0.0010		
35	_	1.73	0.40	0.0120	-0.00A5	0, 0133	0,0	0,0100	0.0023	-0.0003	~0.0006	- 0.0002	0.0000		
35		1.73	0.40	0.0354	-0.0045	0, 01 36	∵ 0• ∩	0.0143	0.3046	-0.0000	-0.0010	- 0.0005	0.0004		
34.		1.73	0.40	0.0438	-0.0065	0.0133	0.0	0.0151	0.0104	-0.0001	-0.0014	~ 0 . 000 0	0.0007		
34/		1.73	0.40	0-0175	-0.0178	0,0171	0. 0	0,0065	-0.3309	-0.0001	-0.0003	-0.0002	0-0004		
354			. 0.40	0.0175	-0.01 º0	0.0171	0.0	0.0050	-0.0013	-0.0001	-0.0003	,-n.nont	0.0004		
360		1.73	0.40	0.0175	-0.0304	0.0171	0.0	0.0033	-0.0071	0.0003	0.0001	0.0005	0.0007		
361		1.73	0.40	0.0176	-0.0598	0-0168	0.0	-0.0005	-0.0145	0.0006	0.0034	0.0005	0.0010		
34		1.73	0.40	0.0173	-0.0197	0.0159	0.0	0.0071	-0.0006	-0.005	0.0001	0.0000	0.0006		
361	-	1.73	0.40	0.0175	-0.0105	0.0344	0.0	0.0030	0.0011	-0.0000	0.0003	0.0004	0.0003		
364		1.73	0.49	0.0175	-0.0195	0.0509	0.0	-0.0039	0.0012	0.0000	0.0010	0.0005	0.0003		
361		1.73	0.40	0.0175	-0. 11 A7	0.0664	0.0	-0.0002	_ 0.0026	. 0.000	0.0014	0.0001	-0.0001		
761		1.73	0.40	0.0175	-0.0107	0.0189	0.0	0.0059	-0.1004	-0.0002	-0.0001	0.0002	0.0004		
361		1.73	0.40	0.0173	-0-0192	-0.0045	0-0	0.0127	-0.0027	-0.0001	-0.0004	-0.0000	0.0007		
361		1.73	0.40	0.0173	-0.0190	-0.0306	0.0	0.0171	-0.2050	-0.0004	-0.0008	-0.0006	. 0.0007		
340		1.73	0.49	0.0176	-0.0197	-0.0307	0.0	0.0207	-0.0056	-0.0005	-0.0010	-0.0011	0-0005		
37	_	1.73	0.66	-0.0003	-0.0113	0.0143	0,0	0.0092	-0.7020	-0.0002	0.0002	-0.0003	0.0012		
374 379		1.73	0.66	0.0190	-0.0113	0.0147	0.0	0.0134	0.0071	0 .0 00.t	-0.000	-0.0003	u•uui		
376			0.66	0.0265	-0.0112	0.0147	0.0	0.0170	0.0138	-0.0004	-0.0013	-0.0000	0.0012		
37		1.73	0.66	0.0087	-0.0113	0,0147	0.0	0.0107	0.0023	-0.0004	-0.0007	-0.0000	0.0013		
370		1.73	0.46	0.0027	-0.0152	0.0199	0.0	0.0005	0.0013	-0.0001	0.0003 -0.005	-0.0003	0.0014		
379		1.73	0.44	0.0007		0.0109	0.0	0.0148	0.7094	-0.0007	-0,0005	0.0003	0.0032		
. 371	•	1.73	0.66	0.0097	0.0079	0,0107	0.0	0.0162	0.0123	-0.0007	-0.0012	-0.0001	0.4022		
		1.73	0.46	0.0007 0.0087	0.0174	0.0123 0.0123	0.0	. 0.01º0 0.00º0	0.0173	-0.0012	-0.000° -0.0003	- 0.0003 0.0004	0.0050		
39		1.73	0.66	0.0047	-0.0232	0.0123	0.0 0.0	0.0066	-0.7015	0.0003	0.0004	0.0005	0.0011		
30	-	1.73	0.66	0.0087	-0.0321	0.01.43	0.0	0.0042	-0.0059	0.0005	0,0007	0.0001	0.0006		
•			0000	0.00%	-000321	0001.73	O. U	200048	- 17 - 17 17	. 01000	12 6131103 7	0.000	A + 11.15		

Table V. (Continued)

••															
														· · · · · · · · · · · · · · · · · · ·	
						71.5			·CM	•	CMAPC		e oc		
	ţn	CFG	P	MH	THO	THS .	THE	AL		CL	Compet.	CMTUC	CL 4°C	. CL4PS	
					•										
	384	3	1.73.	A 4.4	0.00P7	-0.0435	0.0193	0.0	0.0002	-0.0134	0.0010	0 0004	-0.0002	0.0007	
•	365	`~3	1.73	0.56	0.0097	-0.0178	0.0178	0.0	0.0079	0.2004	0.000?	0.0006	0.0001	0.0010	
	306	3	1.73	0.66	0.00%	-0.0190	0.0337	0.0	0.0058		-0.0003	0.0002	0.0010	0.0010	
	307	3	1.73	0.66	0.00%	-0.0180	0.0424	0.0	0.0007	0.0029	0.0001	0.0011	3.000	0.0004	
-	380	3	1.73	0.66	0.0000	-0-01-0	0, 0503	0.0	-0.0037	0.0005	0.0001	0.0012	9.0006	0.0001	
	300	3	1.73	0.66	0.0086	-0.01.90	0.0107	0.0	0.0386	0.3017	-0.0001	-0.00012	0.0000	0.0013	
	300	3	1.73	0.44	0.0000	-0.0178	-0.0002	0.0	0.0125	-0.2034	-0.0001	-0.0009	-0.0204	0.2014	
	303	3	1.73	0.00	0.0	-0.0190	0, 0234	. 0.0	0.0055	-0.3031	-0.0000	0.0001	0,0006	0.0011	
	304	3	1.73	0. 00	0.0096	-0.01-0	0.0235	0.0	0.0009	0.3035	-0.0005	0.0001	0.0006	0.0012	
	305	3	1.73	0.40		-0.0178			0.0123	0.1017	-0.0010		0.000	0.001 4	
	304	3	1.73	0.20	0.0176	-0.017A	0.0234	0.0	0.0142	0.3122	-0.0007	-0.0003 -0.0007	0.0000	0.0014	
	307	3			0.0262	-0.0120	0,0239	0.0	0.0344					0.000	
	300	3	1.73	0.00	0.0002	-0.0090	0.0244	0.0	0.0076	-0.3024	-0.0003	0.0010	0.0010	0.0013	• /
	300		1.73	0.80	0.0002		0.0262	0.0	0.0142	0.3017 0.3109	-0.0014	F000.0	0.0009	0.000 3.	
	400	3		0.40		0.0024 0.0133	0.0262	0.0						0.0021	
	401	3	1.73	0.80	0.0002	-0.01 é e	0.0767	0.0	0.0192	-0.0177	-0.0019	-0.0014	0.0000	0.0011	
					0.0002		0.0264	0.0		-0.0030	-0.0000	0.0004			***
	402	3	11.73	0.40	0.0003	-0.0193	0.0155	0.0	0.0116	-0.0046	0.0002	-0.0005	-0.0002	0.0020	
		3	1.73	0.20	0.000?	'-0.0197	0.0049	0.0	0.0145	-0.3044	-0.0000	-0.0011	-0.0004	0.0077	
	1101	. !	2.32	0.78	-0.0003	0.0074	-0.0023	0.0	0.0255	-0.0133	-0.0071	0.0033	0.0035		·
	1100		2.3?	0.78	-0.0017	0.0002	-0,0005	-0.0245	0.0220	-0.3215	-0.0040	0.0011	0.0017	0.0043	
	1715		2.12	0.79	0.0002	-0.0076	0.0003	-0.0524	0.0170	-0.329A	-0.0002	0.0012	0.0013	0.0047	
	1192	ļ	2.32	1.07	-0.0003	0.0017	-0.0024	0.0	0.0221	-0.7107	-0.0077	0.0044	0.0066	0.0049	
	1100	1	2.32	1.07	-0.0017	0.0031	-0.0003	-0.0262	0.0225	-0.3250	-0.0111	0.0004	. 0.0020	0.0077	
	1716	1	2.32	1.07	0.0003	-0.0014	-0.0007	-0.0574	0.0145	-0.2400	-0.0150	-0.0049	-0.0017	0.0120	
	1143	i	2.32	1.44	-0.0003	0.0021	-0.0035	0.0	0.0371	-0.0073	-0.0042	0.0155	0.0170	0.0024	
	1200	ı	2.32	1.44	-0.0017	0.0031	-0.0003	-0.0245	0,0209	-0.0?74	-0.0721		# 0.0092	0,0100	
	1194	1	2.32	1.77	- 0. 0005	0.0051	-0.0045	0.0	0.0543	0.2034	0.0022	0.0271	0.0100	-0.0170	
	1501	1	2.32	1.77	-0.0016	0.0014	-0.0005	-0.0563	0.0259	-0.0225	-0.0237		0.0150	0.0200	
	1196	1	1.56	0.43	-0.0002	0.0017	-0.0040	0,0	0.0196	-0.3041	-0.0002	-0.0001		0.000	
	1203	1	1.56	0.43	-0.0017	-0.0023	0.0003	-0.076?	0.0050	-0.3049	0.0001	-0.0001	0.0000	-0.0000	
	1516	1	1.56	0.43	0.000	-0.0053	-0.0023	-0.0524	0.0055	0.000A	-0.0003	0.0001	0.2201	0.0010	
	1107		1.56	0.58	-0.0002	0.0021	-0.0040	0.0	0.0141	-0.0043	-0.0004	-0.0003	-0.0002	0.0003	
	1204	1	1.56	0. 58	-0.0017	-0.0024	0.0010	-0.0262	0.0096	-0.0070	-0.0004	-0.0001	0.0003	0.0013	
	1510	1	1.56	0.58	0.0005	-0.0014	-0.0023	-0.0524	0.0067	-0.3119	-0.0004	0.0005	0.0025	0.0016	· · · ·
	1100		1.56	0.70	-0.0002	0.0051	-0.0040	0.0	0.0191	-0.3020	-0.0007	-0.0011	-0.0006	0.0013	
	1205	1	1.56		-0.0017	-0.0007	0.0007	-0.024?	0.0105	-0.0091	-0.000	-0 -0001	0.000%	0.0015	
	1270	. 1	1.54	0.70	0.0005	-0.0016	-0.0021	-0.0524	0.0041	-0.0149	0.0000	0.0006	0.0011	1500-0	
	1100	ı	1.56	0.06	-0.0003	0.0051	-0.0042	0.0	0.0239	-0.2006	-0.0001	-0.0007	-0,0009	0.0015	
	1204	1	1.56	0.06	-0.0017	-0.0007	0.0003	-0.0262	0.0105	-0.0106	-0.0004	0.0000	0.0010	0.0015	
	1551	ı,	1.56	0.94	0.0005	-0.0012	-0.00?1	-0.0574	0.0016	-0.0195	-0.0010	0.0012	0.0014	0.0020	
	1101	ļ	1.33	0.30	0.0	0.0010	-0.0040	0.0	0.0066	-0.0046	-0.0001	0-0002	-0,0000	-0.0003	
	1208	1	1.33	.0.20	-0.0017	-0.0014	0.0007	-0.026?	0.005?	-0.0043	-0.0004	0 -000 1	0.0000	-0-0001	
	1223	l	1.33	0.50	0.0005	~0.0021	-0.0021	-0.0574	0.0045	-0.3045	-0.0006	7.0002	0.0003	-0.0001	
	1105	ı	1.33	0.40	-0.0002	0.0023	-0.0041	0.0	0.0000	-0.2044	-0.0003	0.0002	-0.0002	~0.0003	
	1209	1	1.33	0.40	-0.0017	-0.0000	0.0005	-0.0262	0.0056	~2.3052	-0.0007	0 -000 3	0.0002	-0.2002	
	1274	ı	1.33	0.40	0.0005	~0.0014	-0.00?1	-0.0524	0.0042	-0,1058	-0.0006	0.0005	0.0011	-0.0002	

Table V. (Concluded)

10	CEC	Þ	w13	THO	THS	THE	AL	ÇM	rı .	CM40r	Chabé	^L 4 P ^	ri404
1193	1	1.33	0.54	-0.0002	0.0023	-0.0037	0.9	0.0106	-0.3042	-0.0005	0.0001	0.0003.	-040003
1210	i	1.33	0.54	-0.0016	-0.0003	0,0010	-0.0262	0.0069	-0.3056	-0.0007	0.0004	-0.0000	-0.0002
1225	ī	1.33	0.54	0.0005	-0.0023	-0.0021	-0.0524	0.0029	-0.3026	-0.0010	0.0006	0.0004	-0.0002
1104	ì	1.33	0.66	-0.0002	0.0021	-0.0040	0.0	0.0149	-0.3024	-0.0005	-0.0002	-0.0003	-0.0004
1211	ī	1.33	0.66	-0.0016	-0.0026	0,0002	-9.0262	0.0068	-0.0065	-0.0000	0.0005	-0.0002	-0.0004
1226	ĩ	1.33	0.44	0.0005	-0.0021	-0.0021	-0.0574	0.0017	-0.3000	-0.3314	7.0007	0.0005	- 7.0 774
41?	3	1.73	0.36	-0.0005	-0.0028	0.0	0.0	0.0031	-0.0006	0.0000	-3.0000	-0.0001	-0-0001
479	3	1.73	0, 34	0.000?	0.0040	-0,0038	-0.0262	0.0079	-0.0056		0.0005	0.0004	0,0007
445	3	1.73	0.34	0.0	0.0	0.0005	-0.0424	0.0063	-0.3063	-0.0025	9.0004	0.0005	0.000
413	3	1.73	0.40	-0.0003	-0.0024	0.0	0.0	0.0235	-0.0006	0.0000	0.0001	0.0000	0.0000
430	3	1.73	0.40	20002	0.0051	-0,0020	-0.0262	0.0002	-0.0050	-0.0002	0.0001	0.0003	0.0012
446	3	1.73	0.49	0.0	0.0007	0.000?	-0.0024	0.0040	-0.3046	-0.0023	0.0008	0.2000	0.0010
414	3	1.73	0.66	-0.0005	-0.0021	-0,0005	0.0	0.0048	0.0006	0.0000	-0.0000	0.0000	0.0000
431	3	1.73	0.66	0.0002	0.0051	-0,0017	-0.0262	0,0109	-0.0056	-0.0006	0.0000	0.0004	ຕຸກຄາງວ
447	3	1.73	0.66	0.0	-0.0002	0.0002	-0.0524	0.0045	-0.3142	-0.0002	0.0005	ີ ທໍາດາຍ	0.2012
415	3	1.73	0.00	-0.0003	1500.0-	-0.0002	0.0	0.0050	0.0002	-0.0000	0.0000	0.0000	0.0000
432	3	1.73	0. 10	0.0	. 0.0042	-0-0023	-0.0262	0.0110	-0.0073	-0.0007	-0.0004	0.0004	0.0010
44 R	3	1.73	0.90	0.0	0.0005	0.0002	-0.0524	0.0035	-0.0164	-0.0003	0.0012	0.0014	0.0012
417	. 3	1.55	0.20	-0.0005	-0.0031	-0.6002	0.0	0.0037	-0.3015	-0.0001.	-1.0010	-0.0000	-0.0011
434	3	1.55	0. 26	_ 0.0	0.0045	-0-0021	0. 0242	0.0067	-0.0028	0.0004.	0.0003	0.0001	0.0005
450	3	1.55	0.29	0.0	0.0005	0.0	-0.0524	0.0053	-0.0033	0.0003	0.0003	-0.0001	0.0000
410	3	1.55	0.40	-0.0005	-0.0021	-0.000?	0.0	0.0042	-0.3014	0.0000	0.000	~ 0.0000	0.0000
435	3	1. "5	0.40	0.0	0.0052	-0.0021	-0-0365	0.0070	-0.0048	0,0006	0.0006	-0.0013	0.0000
451	3	1.55	0.40	. 0.0	0.0	0.0	-0.0524	0.0046	-7.3063	0.0004	0.0005	0.000?	0.0011
417	3	1.55	0. =4	-0.0005	-0.0024	-0.0002	0.0	0.0059	-0.0003	-0.0000	ე • იიიე	0.0000	0.0001
435	3	. 1.55	0. 4	0, 0	0.0045	-0,0017	0. 0?42.	0.00°2.	0,0054 .	0,0005	. 0.0002.	0.0001	0.0011
452	3	1.55	0. 54	-0.0002	. 0.0007	-0.0010	-0.0524	0.0944	-0.3084	0.0005	ე.იიი∘	0.000?	0.0014
437	3	1.55	0.66	0.0	0.0051	-0.0021	-0.0242	0.0001	-0.3057	0.0004	0.0003	-0.0003	0.0014
453	3	1.55	0.44	0.0	0.0005	-0,0005	-0,0524	0.0039	-0.0030	0.0007	0.0010	0.0003	0.001 P

Table VI. 7.5-Foot 4-Blade Rotor Reduced Experimental Nondimensional Hub Moment Derivatives

FLG 1: D .../DTHO

FLG 2: D .../DTHS

FLG 3: D ... /DTHC

FLG 4: D .../DAL

					± ±					
10	CFG	Р	MIJ	FLG	DCM	DC.L	ncm3p	DCL3P	DCM5P ·	DOLSE
				-		•				•
APA.	1	1.56	0.24	1	0.1949	0.23,05	0.0154	0.0022_	0.0021_	0.0009
904	1	1.56	0.26	2	0.1538	0.2528	0.0056.	-0.0107	-0.0009	0.000
o0 5	1	1.56	0.26	3	-0.2609	0.0064	-0.0030	0,0065	-0.0024	0,001
015	1	1.56	0.58	l	0.2551	0.3516	0.0128	-0.0239	,-0.0053	0.003
دآث	1	1.56	0.58	2	0.2232	0.3309	-0.0024	-0.0199	-0.0015	0.002
924	1	1.56	0.58	3	-0.2771	0.0062	-0.0052	0~01.93	0.0061	0.000
030	1	1.56	9.70	1	0.4045	0.5231	0.0080	-0.0409	0.0011	0.000
044	. 1	1.56	0.79	2	0.3947	0.4967	-0.0146	-0.0424	-0.0051	0.000
950	` 1	1.56	0.79	3	-0.3335	0.0005	-0.0097	0,0279	0.0039	0.000
958	1 .	1.56	0.96	1.	0.5465		-0.0008	-0.0574	-0.0021	-0.0069
963	1	1.56	0.06	2	0.4979	0.5517	-0.0242	-0.0437	0.0073	0.005
069	i	1.56	0.96	3	-0.3634	0.1020	-0.0064	0.0447	-0.0015	-0,004
079	i	1.33	0.20	1	0.1445		0.0069	0.0000_		-0.000
995	ī	1.33	0.20	2	0.1421	0.1505	0.0040	-0.0022	0.0035	0.000
1000	i	1.33	0.23	3	-C.2079	0.1223	-0.0016	-0.0028	-0.0002	0,003
1025	ī	1.33	0.40	3			-0.0019	-0.0001	-0.0003	
1035	··· • • • • • • • • • • • • • • • • • •	1.33	0.54	1	0.2028	0.2163	0.0050	-0.0057	0.0022	0.003
1040	i	1.33	0.54	2	0.5038	0.2259	0.0031	-0.0121	0.0054	0.003
1047	i	1.33	0.54	3	-0.2242	0.1276	-0.0024		-0.0018	
1060	i	1.33	0.66	í	0.4215	0.3211	0.0131	-0.0265	0.0118	0.003
1065	i	1.33	0.65	ż	0.4164	0.2933	0.0023	-0.0722	0.0064	0,006
1072	ì	1.33	0.66	3	-0.2501	0.1054			0.0030_	
1005	i	2.32	0.78	i	0.210	0.5707	0.1063	0.0485	0.0056	0.000
1055	i	2.32	0.78	2	0.1966	0.4486		-0.0356	0.0124	-0.005
1102	i	2.32	0.78	3	-0.3734		0.1600	_=0.1172		
11172	. i	2.32	1.07	1		0.0472 0.9228	0.1952			
1125	i	2.32	1.04	5	0.4037	0.4226		0.1319	0.0143	-0.002
	1	2.32					0.2495	0.0102	0.0291	-0.022
1133	i		1.06	3	-0,4537	0.0363	-0.0801		0.0259	0.023
1145		2.32	1.44	1	0.6000	1.5434	0.262B	0.1292	0.0144	-0.020
1150	1	2.32	1.44	2	0.6199	0.9866	0.3320	0.0369	0.0359	-0.075
1157	_	2.32	1,44	3	-0.6010	-0.0°50	0.0001		0.0850	
1165	1	2.3?	1.75	1	0.0112	1.9190	0.2563	0.3242	-0.0445	-0.073
160	3	2.3?	0.50	l	C-1922	0.4104	0.1062	0.0173	-0.0094	-0.003
175 .	3 .	-2.32	.0.59	. 2	0.1527			_=0.0524_		0.0091
183	. 3	2.32	0.59	3	-0.3543		-0.0341	-0.0°34	0.0003	-0.000
193	3	2.32	0.60	1	0.2559	0.6064	0.1462	0.0449	-0.0158	-0.002
100	3	2.32	0.00	2	0,2626	0.5232	_	0.0272	0.0135	
ŠUÝ.	3	2.32	0.90	3	-0.3973	0.0765	-0.0424	-0.1704	0.0154	-0.012
233	3	1.55	0.29	1	0.1460	0.1289	0.0135	-0.0037	-0.0090	0.005
240	3	1.55	0. 29	2	0.1601	0,2149	0.0088_	0.0045_	0.0002.	0.004
247	3	1.55	0.20	3	-0.2706	0.1113	-0.0036	-0.0007	-0.0056	-0.002
257	3	1.55	0.40	1	0.1733	0.2046	0.0147	-0.0068	-0.0045	0.007
261	3	1.55	0.40	2	0,2092	0.2686	0,0040	0.00 91		
269	3	1.55	0.40	3	-0.2743	0.1140	-0.0011	0.0054	-0.0060	-0.001
203	3	1.55	0.54	1	0.2302	0.3566	0.0105	-0.0259	-0.0099	0.0110
304	3	1.55	0.54	3	0.3049	0.0971	-0.0005_	0. 01 77_	0.0012_	0.0011

Table VI. (Concluded)

 FLG 1: D.../DTHO
 FLG 2: D.../DTHS

 FLG 3: D.../DTHC
 FLG 4: D.../DAL

								•		
20	ÇFG	9	MIT	FL G	T TCM. TT	DCF	_ มิโฟริอ	<u> </u>	PCM5P	ַ הַרָּבַּיּרָבְיּ
310	3	1.55	0.66	1	0.3012.	0.3867	0.0101	0.0342	0.0191	0.0004
314	3	1.55	0.66	2	0.3970	0.4231	-0.0079	-0.0304	0.0023	0.0023
319	3	1.55	0.66	3	-0.3105	0.0993	-0.0032	0-0250	-0.0026	0.0061
330	3	1.73	.0.36	1.	0.1612	0.1963	0.0191	-0.0175	-0.0000	-0.00006
335	3	1.73	0.36	2	0.1559	0.2671	0.0046	-0.0073	-0.0041	-0.0000
343	3	1.73	0.36	3	-0.3056	0.0920	-0.0017	0,0002	0-0017	0,0000
35? (3	1.73	0.49	1	0.1850	0.3020	0.0049	-0.02.88	-0.0007	0.0037
356	3	1.73	0.40	2	0.1633	0.3261	-0.0030	-0.0172	-0.0126	-0.0010
362	3	1.73	0.49	3	-0.2968	0.0946	0.0062	0-0181	-0-0000	-0,0056
373	. 3	1.73	0.66	. 1 .	0.3230	0.5793	0.0012	-0.0349	-0.0036	0.0139
377	3	1.73	0.66	2	0.3111	0.4964	-0.0365	-0.0169	0.0012	0.0139
385	3	1.73	0.66	. 3	-0.3171	0.0317	0.0170	0.0314	-0,0109	-0.0100
303	3	1.73	0.00	1	0.3425	0.5542	~0.0206	-0.0254	-0.0065	0.0040
397	3	1.73	0.90	2	0.4610	0.6757	-0.0638.	-0.0504	0.0120	0.0231
401	3	1.73	0.00	3	-0.4127	0.0334	0.0436	0.0474	-0.0024	-0.0109
ITRY	1	.2.32	.0.78	4	0.1449	0.2966	0.0341	0.0402	0.0036	0.0027
1182	l	2.32	1.07	4	0.2792	0.5599	0.1394	0.1975	0.0050	-0.0300
1103	1	2.32	1.44	4	0.6202	0.8470	0.7497	0.4635	-0.0677	-0.1003
1194	1	2.32	1 77	4	1.0963	0.0075	1.2171	0.6321	-0.2274	-0.3671
1126	1	1.56	0.43	4	0.0702	0.0696	0.0032	-0.0051	-0.0006	-0.0021
1187	1	1.56	0.50	4	0.1411	0.1447	0.0048	-0.0159	-0.0075	0,0003
1122	1	1.56	0.70	4	0.2851	0.2046	0.0724	-0.0326	-0.0057	-0.0011
1189	l	1.56	0.96	4	0.4271	0.3423	0.0056	-0.0428	-0.0038	-0.0050
1101	Į	1.33	0.29	4	0.0408	-0.0010	0.0040	-0.0029	0.0037	-0.0030
1102	1	1.33	0.40	4	0-0709	0.0223	0.0025	-0.0758	0.0019	-0.0000
1103	1	1.33	0.54	4	0.1409	0.0P47	0.0066	-0.0116	0.0045	-0.0021
1194	1	1.33	0.66	4	0.2535	0.1429	0.0108	-0.0157	0.0072	0.0015
412	3	1.73	0.36	4	- C. 0621	0.1095	0.0151	-0.0122	-2.0045	0.0001
413	3	1.73	0.40	4	-0.0493	0.1539	0.0150	-0.0144	-0.0059	0.0000
414	3	1.73	0.56	4	0,0061	0.2919	0.0141	-0.0123	-0.0103	-0.0022
415	3	1.73	0.00	4	0.0202	0.3120	0.0140	-0.0260	0.0094	-0.0033
417	3	1.55	0.29	4	-0.0304	0.045?	0.0040	-0.0026	-0.0120	0.0037
419	3	1.55	0.40	. 4	-0.0030	0.0026	0.0068		-0.0140	
419	3	1.55	0.54	4	0.0281	0.1549	0.0073	-0.0090	-0.0183	0.0059
437	3	1.55	0.66	4	0.1957	0.1577	0.0093	-0.0256	-0.0043	0.0009

REFERENCES

- Abbott, I.H. and Von Doenhoff, A.E., "Theory of Wing Sections," Dover, New York, N.Y., 1959
- 2. Bartsch, E.A. and Sweers, J.E., "In-Flight Measurement and Correlation with Theory of Blade Airloads and Responses on the XH-51A Compound Helicopter Rotor" Volumes I, II and III, USAAVLABS Technical Report 68-22A, B & C, May, 1968.
- 3. Watts, G.A., London, R.J., and Snoddy, R.J., "Trim, Control, and Stability of a Gyro-Stabilized Hingeless Rotor at High Advance Ratio and Low Rotor Speed", NASA CR 114362, May, 1971.
- 4. Kuczynski, W.A., and Sissingh, G.J., "Research Program to Determine Rotor Response Characteristics at High Advance Ratios "Lockheed Report LR 24122 February, 1971.